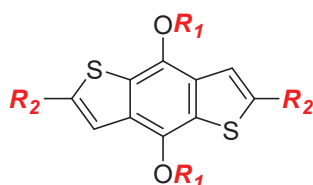


Contents

Introduction	1
Organic Electronics	3
Phosphorescent Dopants-Blue	3
Phosphorescent Dopants-Green	3
Phosphorescent Dopants-Yellow	4
Phosphorescent Dopants-Red	4
Phosphorescent Host Materials	5
Fluorescent Dopants	7
Fluorescent Host Materials	7
Hole Transport Materials	7
Hole Injection Materials	8
Electron Injection Materials	9
Electron Transport Materials	9
LEEC (Light Emitting Electrochemical Cell)	10
Dichloro-bridged Iridium(III) Complexes	11
OPV & OTFT Materials/Monomers/ Intermediates	12
Monomer-BDT* Series	13
Monomer-Carbazole Series	18
Monomer-CPDT* Series	20
Monomer-DPP* Series	20
Monomer-DTP* Series	24
Monomer-Fluorene Series	24
Monomer-NDI* Series	27
Monomer-PDI* Series	29
Monomer-Phthalimide Series	29
Monomer-Silole Series	30
Monomer-DTP Series	30
Monomer-Thiadiazole Series	31
Monomer-Thiophene Series	34
Monomer-Triazole and Tetrazine Series	42

Intermediates.....	43
Life Science.....	51
Protein Staining Agents.....	51
Labeling Reagents.....	52
Ru Complexes.....	52
Ir Complexes.....	53
Ligands.....	55
N^N Diimine Ligands.....	55
C^N Cyclometalating Ligands.....	61
Other Chemicals.....	64
Electrochromic Materials.....	69
Chemical Indices.....	70
CAS Number Index.....	71
Catalog Number Index.....	76
NMR Chemical Shifts of Common Laboratory Solvents.....	82

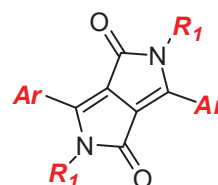
***BDT, CPP, DPP, DTP, NDI, PDI stand for the derivatives below:**



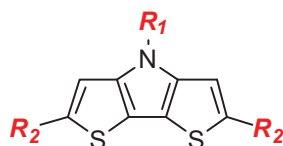
BDT



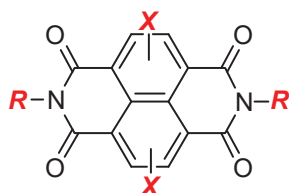
CPDT



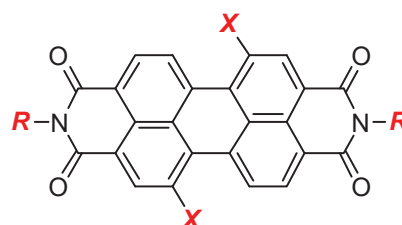
DPP



DTP



NDI



PDI

苏州纳凯科技有限公司（SunaTech Inc.）是地处苏州工业园区内的一家高新技术企业，由海归科学家与国家级研究所共同出资成立。纳凯科技拥有一支以海归博士领衔的，具备国家级研究所科研背景的高水平研发团队，公司自成立伊始就致力于有机光电材料的研发和相关应用研究。纳凯科技目前已在以发光金属配合物为主 **OLED** 核心材料，**OPV** 中间体和聚合物材料等体系积累了丰富的材料开发经验并形成了结构和功能丰富的材料产品库，公司也与全球多所知名研究机构以及企业研发部门建立了稳定互信的客户关系。

公司不仅向国内外学术界和工业界广泛的客户群体提供研发用高品质有机光电材料，同时也为客户的科技研发工作提供更宽泛的定制合成、委托开发等科研服务或者合作开发。纳凯科技在从有机电子到生物分析的多个领域拥有自己的技术经验和研发兴趣，希望与海内外科技工作者在新材料、新能源、生命科学以及体外诊断等领域开展合作开发，寻找解决方案。

Innovation doesn't have to start from scratch – try to start from SunaTech Inc., a chemistry company that keeps its eyes on innovative technologies.

定制合成

根据客户的具体需求定制合成特定的材料产品是纳凯科技的重要业务之一。纳凯公司拥有一批经验丰富的合成研发人员，可以依据客户设定的结构、数量和纯度提供包括小分子化合物、金属配合物和聚合物的定制有机材料，规格根据相应材料特点可以从毫克级到公斤级。定制合成业务可能会涉及到以下事项。

- 签订保密协议
- 查阅文献数据
- 设计合成路线
- 合成目标化合物
- 表征合成出的化合物
- 放大合成工艺
- 准备 **MSDS** 等技术文件

纳凯科技充分理解客户的保密需要，并且建立了保护客户相关信息的公司内保密制度和措施。

如需问询定制合成，请提供 **CAS#**，结构式或者化学品名称等信息给我们的销售人员。

付费服务项目

纳凯科技提供的付费服务项目（**Fee-for-service**）模式目前是适用于生物分析方法研发一种商业合作模式，即根据客户的要求，使用纳凯科技所开发的抗体或蛋白质标记试剂（例如 **SunaTag™**）来进行生物分析技术或体外诊断技术研究。

合同研究

纳凯科技也鼓励客户与我们的研发团队开展委托开发等合同研究项目。合作项目可以是一个分子材料的合成，一个聚合物光伏器件的制备，一个 **OLED** 器件结构的设计，或者发展一个检测方法。

纳凯科技得益于股东方国家级研究所的技术力量和仪器设备，有信心有能力与合作客户共同完成高水平的研究开发。在合同履行期间，纳凯的研发人员将保证为客户的解决方案严格保密。

利用公司网站上搜索化学品

公司的产品目录有时不能及时更新纳凯科技最新的产品研发资讯。客户可以选择从公司的官方网站（www.sunatech.com.cn）便捷检索产品的方式。您可以简单的输入一个关键词，例如 **"iridium"**，**"thioph"**，**"dibromo"**，来检索所有包含铱元素、噻吩基团或双溴取代化合物的结构。您也可能从公司网站上发布的产品促销推荐单上获知技术数据或价格信息。

重要提示

1. 严格按照正确的方法使用和处理具有危险性的化合物产品。
2. 由于相当一部分纳凯科技生产的化学品或材料的存储条件可能存在认知和实验上的不足，所以在使用时请小心谨慎。
3. 签订保密协议的定制合成化学品或材料将不会以任何形式被公开。
4. 纳凯科技会针对部分产品保有一定的库存，但并不能保

证所有产品任何时候都有现货。如果我们不能提供您所
要的化合物和相应数量，请接收我们诚挚的道歉。您也
可以与我们的技术人员交流探讨替代的解决途径。

5. 公司网站上提供部分产品对应的结构分析数据以及光谱数据。这些数据仅供参考。
6. 绝大多数产品的材料安全数据资料（MSDS）也可以方便的从公司网站上获取。如果您确认订购前需要一份MSDS 数据，请前往公司网站查询下载或联系销售人员。
7. 公司产品目录中的所有材料已根据它们的可能用途或产品的自然特征进行了粗略的分类。鉴于我们的经验有限，我司不确保所有的用途分类足够准确。
8. 产品目录中的一些化学品可能在一些国家受有效的专利保护。购买者在使用这些材料的过程中，请注意专利侵权的风险和责任。
9. 纳凯公司一般情况下将采用玻璃瓶外加铝箔袋真空包装的方式将产品寄送到客户手中。

苏州纳凯科技有限公司

SunaTech Inc.

SunaTech Inc., located in Suzhou Industrial Park, Jiangsu, China, is committed to providing support to the research and development of advanced technologies that ultimately benefit our environment and health. To this end, SunaTech produces and supplies high quality chemicals & materials and offers problem-solving solutions to the worldwide R&D activities related to energy-savings, renewable energy, life sciences and medical diagnostics. Since its incorporation, SunaTech has become a leading developer and supplier of luminescent metal complexes and intermediates of low bandgap OPV materials. While serving its customers, ranging from academia to industry and from organic electronics to bioanalytics, SunaTech is also building its expertise and developing technologies in multiple sectors.

As a small start-up company, SunaTech has a number of Ph.D. scientists with working experience in the North America, Europe, Japan and China, and energetic well-trained junior chemists, who are routinely carrying out complex, multi-step synthesis and solving difficult chemistry problems. Together with the sales staffs, they have enabled SunaTech to establish strong and trusted client relationship with many prestigious research organizations and industrial leaders.

With strong technical and information supports from its shareholders, SunaTech Inc. not only supplies chemicals and materials, but also offers cost-effective solutions to meet customers' research, development, scale-up and production needs.

Innovation doesn't have to start from scratch – try to start from SunaTech Inc., a chemistry company that keeps its eyes on innovative technologies.

Custom Synthesis

Delivering products made to customers' specification represents a significant part of SunaTech's business. With experienced chemists performing complex and multi-step synthesis, SunaTech offers syntheses of simple small molecules and complex compounds of quantities ranging from milligrams to kilograms at competitive prices in a timely manner. This may involve the following steps.

- Signing non-disclosure agreement (NDA)
- Performing literature & database searches
- Brainstorming for efficient synthetic routes
- Synthesizing target molecules
- Characterizing the synthesized molecules
- Conducting scale-up, if required
- Preparing MSDS and other safety related documents

SunaTech understands its customers' desires in confidentiality and has established policy to protect its customers' interest in the way it protects its own interest. To inquire, please submit a CAS Registration Number, structure, or chemical name to our distributors /representatives/agents or our sales department.

Fee-for-Service Project

Fee-for-Service (FFS) mode is currently applied to the R&D of bioanalytical methods involving the use of SunaTech's proprietary reagents (such as SunaTag™) for labeling antibodies or proteins based on customers' requirements.

Contract Research

Whether making a low bandgap OPV polymer or proving an OLED device structure or developing an assay protocol, complex problem solving requires several factors working closely together. SunaTech has a facile access to state-of-the-art research and analytical equipment of Chinese Academy of Sciences. SunaTech's in-house scientists will be dedicated to client solutions during the contract period in the strictest confidence. Our efficient teamwork will contribute to the success of your project.

Searching Chemicals from SunaTech's Website

This catalog does not provide up-to-date information about SunaTech's products. Searching SunaTech's chemical/materials from its website (www.sunatech.com) is easy. You can simply type, e.g., a partial key word such as "irid", "carba", "thiop" or "dibromo" to find all the chemicals with iridium(III) atom(s), carbazole group(s), thiophene group(s) or two bromine atoms in their structures. You may also find technical data or price information from SunaTech's product promotional flyers.

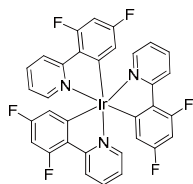
Important Notices:

1. Treat all chemicals as if they were hazardous.
2. The storage conditions of many chemicals/materials produced by SunaTech are not available or have not been well realized, please treat them carefully.
3. Custom synthesized chemicals/materials covered by a NDA will not be disclosed in any manner.
4. SunaTech Inc. maintains certain quantities of chemicals in stock, but could not guarantee each listed chemical is available at any time. If we are unable to provide you with the requested items or quantities, please accept our apologies. You may also find an alternate solution by talking to our technical team.
5. The structural and spectroscopic data of some chemicals are made available on SunaTech's website. These data are for reference purpose only. NMR data of specified lots are available on request.
6. The Materials Safety Data Sheet (MSDS) of some chemicals/materials are available at our website www.sunatech.com.cn/download.asp. If you need a MSDS before placing an order, please download it from this website.
7. Chemicals or materials in this catalog are categorized according to their likely uses and/or chemical natures. SunaTech Inc. makes no representations and extends no warranties of any kind, either expressed or implied, including any warranty of merchantability or fitness for a particular purpose, or warranty that the use of the material will not infringe any patent, copyright, trademark.
8. It is likely that uses of some chemicals or materials listed in this catalog are protected by valid patents in some countries. Buyers shall bear all risk of and liability for patent infringements when using the chemicals or materials for a purpose patented by a third party.
9. The products listed in this catalog are produced in China. The shipment and exportation of chemicals are governed by some laws and regulations, which may cause some delay, despite the stock availability.
10. The Harmonized System Codes (HS Codes) used in SunaTech's documents for customs declaration are based on the commodity classification adopted by Chinese Customs. Customers should refer to the HS codes published in their own countries in order to comply with the regulations.
11. Most of our chemicals/materials are packed in glass vials/bottles, which are wrapped with aluminum bags. It is possible that the governmental agencies of exportation/importation countries may open the packages for inspection. If this is the case and if you have any concerns about the impact on the product quality, please do not hesitate to contact us.

Phosphorescent Dopants-Blue

Tris[4,6-difluoro-2-(2-pyridyl)phenyl-C²,N]iridium(III)

CAT# IR606

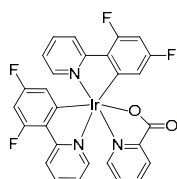


CAS# [387859-70-3]
 Formula C₃₃H₁₈F₆IrN₃
 FW 762.72

Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)(2-carboxypyridyl) iridium(III)

FIRPic

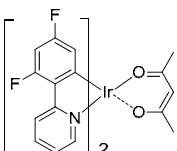
CAT# IR607



CAS# [376367-93-0]
 Formula C₂₈H₁₆IrN₃O₂F₄
 FW 694.67
 λ_{ab} 256, 380 nm (CH₂Cl₂)
 λ_{em} 468, 493 nm (CH₂Cl₂)

Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)(acetylacetonato) iridium(III)Ir(f-ppy)₂(acac)

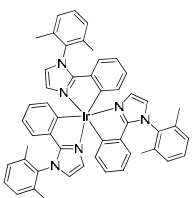
CAT# IR805



CAS# [376367-95-2]
 Formula C₂₇H₁₉IrN₂O₂F₄
 FW 672.12

Tris[1-(2,6-dimethyl phenyl)-2-phenyl-1H-imidazole-C²,N] iridium(III)

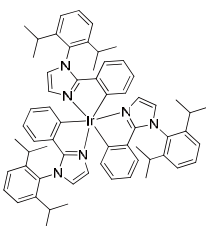
CAT# IR812



CAS# [914394-12-0]
 Formula C₅₁H₄₅IrN₆
 FW 934.16
 λ_{ab} 250, 349 nm (CH₂Cl₂)
 λ_{em} 474, 503 nm (CH₂Cl₂)

Tris[1-(2,6-diisopropylphenyl)-2-phenyl-1H-imidazole-C²,N] iridium(III)

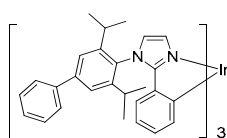
CAT# IR816



CAS# [914394-25-5]
 Formula C₆₃H₆₉IrN₆
 FW 1102.48
 λ_{ab} 262, 350 nm (CH₂Cl₂)
 λ_{em} 473, 504 nm (CH₂Cl₂)

Tris[1-(3,5-diisopropylbiphenyl-4-yl)-2-phenyl-1H-imidazole-C²,N] iridium(III)

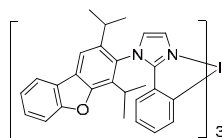
CAT# IR817



CAS# [1272505-63-1]
 Formula C₈₁H₈₁IrN₆
 FW 1330.77
 λ_{ab} 255, 351 nm (CH₂Cl₂)
 λ_{em} 474, 505 nm (CH₂Cl₂)

Tris[1-(2,4-diisopropylidibenzo[b,d]furan-3-yl)-2-phenyl-1H-imidazole-C²,N]iridium(III)

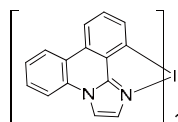
CAT# IR820



CAS# [1331833-06-7]
 Formula C₈₁H₇₅IrN₆O₃
 FW 1372.72
 λ_{ab} 288, 353 nm (CH₂Cl₂)
 λ_{em} 475, 505 nm (CH₂Cl₂)

Tris[imidazo[1,2-f]phenanthridine-C²,N]iridium(III)

CAT# IR840

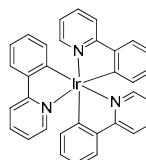


CAS#
 Formula C₄₅H₂₇IrN₆
 FW 843.95
 λ_{em} 458 nm (CH₂Cl₂)

Phosphorescent Dopants-Green

Tris(2-phenylpyridine-C²,N)iridium(III)Ir(ppy)₃

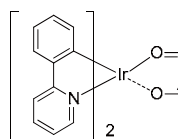
CAT# IR504



CAS# [94928-86-6]
 Formula C₃₃H₂₄IrN₃
 FW 654.78
 λ_{ab} 243, 283, 377 nm (CH₂Cl₂)
 λ_{em} 512 nm (CH₂Cl₂)

Bis(2-phenylpyridine-C²,N)(acetylacetonato)iridium(III)Ir(ppy)₂(acac)

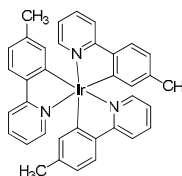
CAT# IR505



CAS# [337526-85-9]
 Formula C₂₇H₂₃IrN₂O₂
 FW 599.7
 λ_{ab} 258, 341 nm (acetonitrile)
 λ_{em} 520 nm (acetonitrile)

Tris(2-(p-tolyl)pyridine-C²,N)iridium(III)Ir(mppy)₃

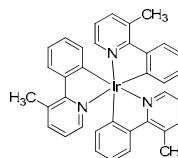
CAT# IR506



CAS# [149005-33-4]
 Or [800394-58-5]
 Formula C₃₆H₃₀IrN₃
 FW 696.86
 λ_{ab} 248, 288, 373 nm (CH₂Cl₂)
 λ_{em} 513 nm (CH₂Cl₂)

Tris(3-methyl-2-phenylpyridine-C²,N)iridium(III)

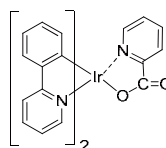
CAT# IR507



CAS# [359014-71-4]
 Formula C₃₆H₃₀IrN₃
 FW 696.86

Bis(2-phenylpyridine-C²,N)(3-(pyridin-2-yl)-2H-chromen-2-onate) iridium(III)

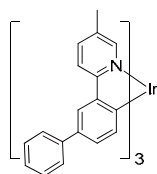
CAT# IR509



CAS#
 Formula C₂₈H₂₀IrN₃O₂
 FW 622.70

Tris(2-(biphenyl-3-yl)-5-methylpyridine)iridium(III)

CAT# IR510

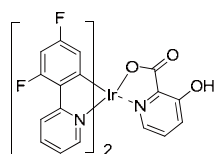


CAS#
Formula $C_{54}H_{42}IrN_3$
FW 925.30
 λ_{em} 512 nm (CH_2Cl_2)

Phosphorescent Dopants-Yellow

Bis(4,6-difluoro-2-(2-pyridyl)phenyl- C^2,N)(3-hydroxy-2-carboxypyridyl) iridium(III)

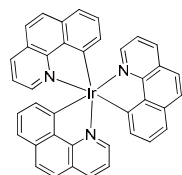
CAT# IR608



CAS#
Formula $C_{28}H_{16}F_4IrN_3O_3$
FW 710.67
 λ_{ab} 253, 377 nm (CH_2Cl_2)
 λ_{em} 541 nm (CH_2Cl_2)

Tris(2-benzo[h]quinoline- C^2,N)iridium(III)Ir(bzq)₃

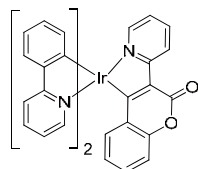
CAT# IR615



CAS# [337526-98-4]
Formula $C_{39}H_{24}IrN_3$
FW 726.84
 λ_{ab} 292, 346, 415 nm (CH_2Cl_2)
 λ_{em} 553 nm (CH_2Cl_2)

Bis(2-phenylpyridine- C^2,N)(3-(pyridin-2-yl)-2H-chromen-2-onate) iridium(III)Ir(ppy)₂pc

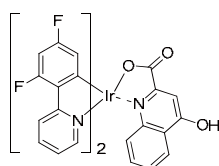
CAT# IR508



CAS# [1003562-42-2]
Formula $C_{36}H_{24}IrN_3O_2$
FW 722.81
 λ_{ab} 290, 339, 382 nm (CH_2Cl_2)
 λ_{em} 545 nm (CH_2Cl_2)

Bis(4,6-difluoro-2-(2-pyridyl)phenyl- C^2,N)(2-carboxy-4-hydroxy-quinoline)iridium(III)

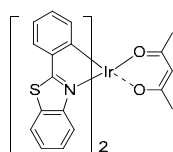
CAT# IR609



CAS#
Formula $C_{32}H_{18}F_4IrN_3O_3$
FW 760.73

Bis(2-phenylbenzothiazole- C^2,N)(acetylacetonato)iridium(III)Ir(bt)₂(acac)

CAT# IR733

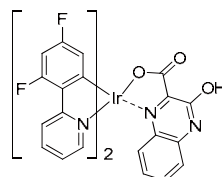


CAS# [337526-88-2]
Formula $C_{31}H_{23}IrN_2O_2S_2$
FW 711.86
 λ_{ab} 325, 356, 441 nm (acetonitrile)
 λ_{em} 562 nm (acetonitrile)

Phosphorescent Dopants-Red

Bis(4,6-difluoro-2-(2-pyridyl)phenyl- C^2,N)(2-carboxy-3-hydroxyquinoline)iridium(III)

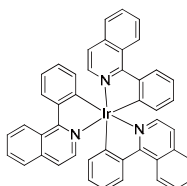
CAT# IR610



CAS#
Formula $C_{31}H_{17}F_4IrN_4O_3$
FW 761.71

Tris(1-phenylisoquinoline- C^2,N)iridium(III)Ir(piq)₃

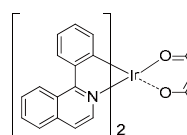
CAT# IR711



CAS# [435293-93-9]
Formula $C_{45}H_{30}IrN_3$
FW 804.96
 λ_{ab} 321, 425 nm (CH_2Cl_2)
 λ_{em} 619 nm (CH_2Cl_2)

Bis(1-phenylisoquinoline- C^2,N)(acetylacetonato)iridium(III)Ir(piq)₂(acac)

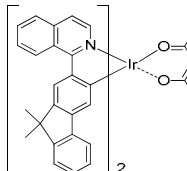
CAT# IR713



CAS# [435294-03-4]
Formula $C_{35}H_{27}IrN_2O_2$
FW 699.82
 λ_{ab} 234, 282, 342, 478 nm (acetonitrile)
 λ_{em} 587 nm (acetonitrile)

Bis(1-(9,9-dimethyl-9H-fluoren-2-yl)-isoquinoline- C^2,N)(acetylacetonato)iridium(III)Ir(fliq)₂(acac)

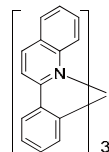
CAT# IR721



CAS#
Formula $C_{53}H_{43}IrN_2O_2$
FW 932.1
 λ_{ab} 285, 368 nm (THF)
 λ_{em} 653 nm (THF)

Tris(2-phenylquinoline- C^2,N)iridium(III)Ir(2-phq)₃

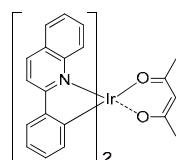
CAT# IR728



CAS# [911142-72-8]
Formula $C_{45}H_{30}IrN_3$
FW 804.96
 λ_{ab} 273, 339, 403 nm (CH_2Cl_2)
 λ_{em} 585 nm (CH_2Cl_2)

Bis(2-phenylquinoline- C^2,N)(acetylacetonato)iridium(III)Ir(2-phq)₂(acac)

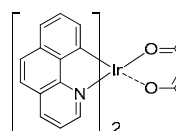
CAT# IR729



CAS# [1173886-71-9]
Formula $C_{35}H_{27}IrN_2O_2$
FW 699.82
 λ_{ab} 272, 339 nm (CH_2Cl_2)
 λ_{em} 595 nm (CH_2Cl_2)

Bis(2-benzo[h]quinoline- C^2,N)(acetylacetonato)iridium(III)Ir(bzq)₂(acac)

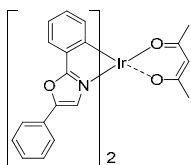
CAT# IR800



CAS# [337526-87-1]
Formula $C_{31}H_{23}IrN_2O_2$
FW 647.86

Bis(2,5-diphenyloxazole- C^2,N)(acetylacetonato)iridium(III)
Ir(dpo)₂(acac)

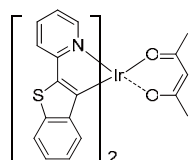
CAT# IR801



CAS# [344796-05-0]
 Formula C₃₅H₂₇IrN₂O₄
 FW 731.82

Bis(2-(benzo[*b*]thiophen-2-yl)pyridine- C^3,N)(acetylacetonato)iridium(III)
Ir(btpy)₂(acac)

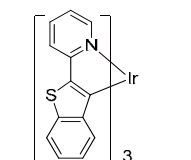
CAT# IR802



CAS# [343978-79-0]
 Formula C₃₁H₂₃IrN₂O₂S₂
 FW 711.86
 λ_{ab} 279, 324, 472 nm (CH₂Cl₂)
 λ_{em} 611 nm (CH₂Cl₂)

Tris(2-(benzo[*b*]thiophen-2-yl)pyridinato- C^3,N)iridium(III)
Fac-Ir(btpy)₃

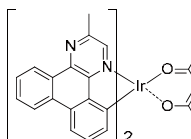
CAT# IR803



CAS# [405289-74-9]
 Formula C₃₉H₂₄IrN₃S₃
 FW 823.04

Bis(2-methyldibenzo[*f,h*]quinoxaline)(acetylacetonato)iridium(III)
Ir(MDQ)₂(acac)

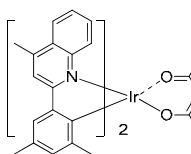
CAT# IR804



CAS# [536755-34-7]
 Formula C₃₉H₂₉IrN₄O₂
 FW 778.22

Bis(2-(3,5-dimethylphenyl)-4-methylquinoline- C^2,N)(acetylacetonato)iridium(III)
Ir(dmpq)₂(acac)

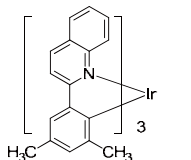
CAT# IR809



CAS# [459133-59-6]
 Formula C₄₁H₃₉IrN₂O₂
 FW 783.98
 λ_{ab} 281, 349, 427 nm (CH₂Cl₂)
 λ_{em} 604 nm (CH₂Cl₂)

Tris(2-(3,5-dimethylphenyl)quinoline- C^2,N)iridium(III)
Ir(dmpq)₃

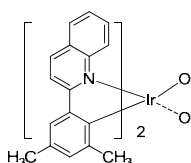
CAT# IR810



CAS# [1152418-56-8]
 Formula C₅₁H₄₂IrN₃
 FW 889.13

Bis(2-(3,5-dimethylphenyl)quinoline- C^2,N)(acetylacetonato)iridium(III)
Ir(dmpq)₂(acac)

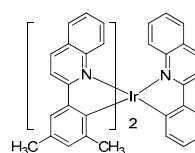
CAT# IR811



CAS# [1056874-46-4]
 Formula C₃₉H₃₅IrN₂O₂
 FW 755.94
 λ_{ab} 281, 352, 429 nm (CH₂Cl₂)
 λ_{em} 614 nm (CH₂Cl₂)

Bis(2-(3,5-dimethylphenyl)quinoline- C^2,N)(2-phenylquinoline)iridium(III)
Ir(dmpq)₂(2-phq)

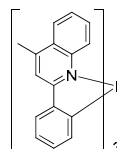
CAT# IR813



CAS# [449133-59-6]
 Formula C₄₉H₃₈IrN₃
 FW 861.06

Tris(4-methyl-2-phenylquinoline- C^2,N)iridium(III)
Ir(mphq)₃

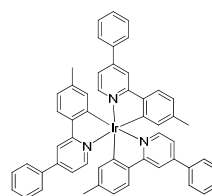
CAT# IR819



CAS# [449133-59-6]
 Formula C₄₈H₃₆IrN₃
 FW 847.04
 λ_{ab} 271, 314, 400 nm (CH₂Cl₂)
 λ_{em} 579 nm (CH₂Cl₂)

Tris(4-phenyl-2-*p*-tolylpyridine- C^2,N)iridium(III)
Ir(4-phenyl-2-*p*-tolylpyridine)₃

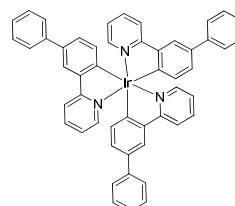
CAT# IR950



CAS# [449133-59-6]
 Formula C₅₄H₄₂IrN₃
 FW 925.15
 λ_{em} 570.6 nm (CH₂Cl₂)

Tris[3-(2-pyridinyl-*k*N)[1,1'-biphenyl]-4-yl-*k*C]iridium(III)
Ir(3-(2-pyridinyl-*k*N)[1,1'-biphenyl]-4-yl-*k*C)₃

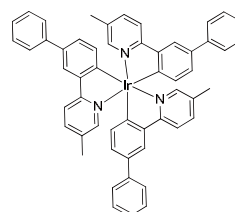
CAT# IR951



CAS# [459133-59-6]
 Or [667935-20-8]
 Formula C₅₁H₃₉IrN₃
 FW 883.07

Tris[3-(5-methyl-2-pyridinyl-*k*N)[1,1'-biphenyl]-4-yl-*k*C]iridium(III)
Ir(3-(5-methyl-2-pyridinyl-*k*N)[1,1'-biphenyl]-4-yl-*k*C)₃

CAT# IR952

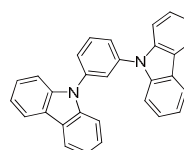


CAS# [872856-45-6]
 Formula C₅₄H₄₂IrN₃
 FW 925.15

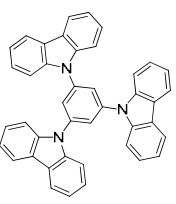
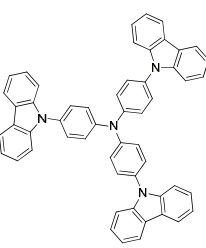
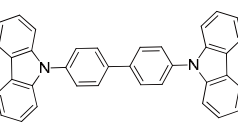
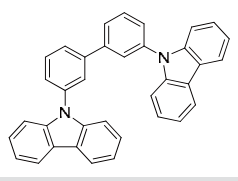
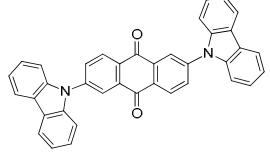
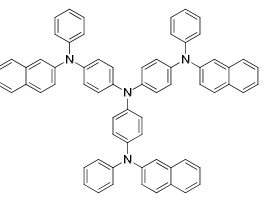
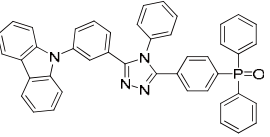
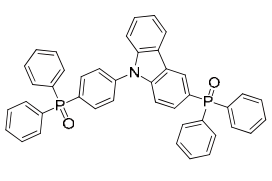
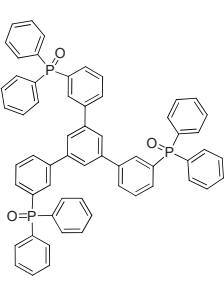
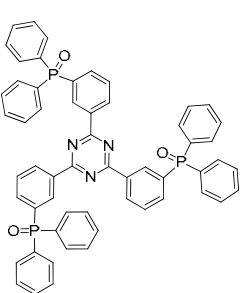
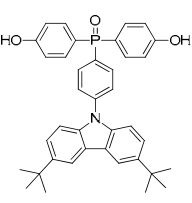
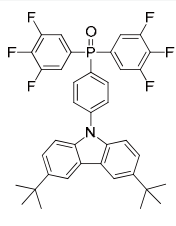
Phosphorescent Host Materials

1,3-Bis(carbazol-9-yl)benzene
MCP

CAT# PH001

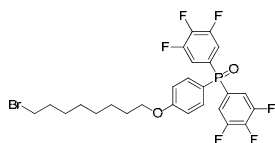


CAS# [550378-78-4]
 Formula C₃₀H₂₀N₂
 FW 408.49

1,3,5-Tris(carbazol-9-yl)benzene TCP	CAT# PH002
	CAS# [148044-07-9] Formula $C_{42}H_{27}N_3$ FW 573.68
4,4',4''-Tris(carbazol-9-yl)triphenylamine TcTa	CAT# PH003
	CAS# [139092-78-7] Formula $C_{64}H_{36}N_4$ FW 740.89
4,4'-Bis(carbazol-9-yl)biphenyl CBP	CAT# PH004
	CAS# [58328-31-7] Formula $C_{36}H_{24}N_2$ FW 484.59
3,3'-Di(9H-carbazol-9-yl)biphenyl mCBP	CAT# PH005
	CAS# [342638-54-4] Formula $C_{36}H_{24}N_2$ FW 484.59
2,6-Di(9H-carbazol-9-yl)anthracene-9,10-dione	CAT# PH007
	CAS# [909712-63-6] Formula $C_{38}H_{22}N_2O_2$ FW 538.59
4,4',4''-Tris[2-naphthyl(phenyl)amino]triphenylamine 2-TNATA	CAT# PH010
	CAS# [185690-41-9] Formula $C_{66}H_{48}N_4$ FW 897.11
9-(3-(5-(4-(Diphenylphosphoryl)phenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)phenyl)-9H-carbazole	CAT# PH015
	CAS# Formula $C_{44}H_{31}N_4OP$ FW 662.72
3-(Diphenylphosphoryl)-9-(4(diphenylphosphoryl)phenyl)-9H-carbazole	CAT# PH017
	CAS# [1226860-68-9] Formula $C_{42}H_{31}NO_2P_2$ FW 643.65
(5'-(3-(Diphenylphosphoryl)phenyl)-[1,1':3',1''-terphenyl]-3,3''-diyl)bis(diphenylphosphine oxide)	CAT# PH018
	CAS# [1311378-95-6] Formula $C_{60}H_{45}O_3P_3$ FW 906.92
((1,3,5-Triazine-2,4,6-triyl)tris(benzene-3,1-diyl))tris(diphenylphosphine oxide)	CAT# PH019
	CAS# Formula $C_{57}H_{42}N_3O_3P_3$ FW 909.88
(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)phenyl)bis(4-hydroxyphenyl)phosphine oxide	CAT# PH032
	CAS# Formula $C_{38}H_{38}NO_3P$ FW 587.69
(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)phenyl)bis(3,4,5-trifluorophenyl)phosphine oxide	CAT# PH035
	CAS# Formula $C_{42}H_{27}N_3$ FW 573.68

(4-((8-Bromooctyl)oxy)phenyl)bis(3,4,5-trifluorophenyl)phosphine oxide

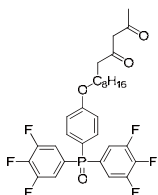
CAT# PH038



CAS#
Formula $C_{26}H_{24}BrF_6O_2P$
FW 593.34

13-(4-(Bis(3,4,5-trifluorophenyl)phosphoryl)phenoxy)tridecane-2,4-dione

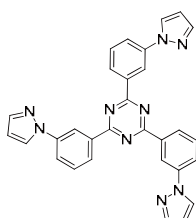
CAT# PH039



CAS#
Formula $C_{31}H_{31}F_6O_4P$
FW 612.54

2,4,6-Tris(3-(1H-pyrazol-1-yl)phenyl)-1,3,5-triazine

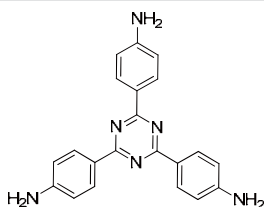
CAT# PH040



CAS#
Formula $C_{30}H_{21}N_9$
FW 507.55

4,4',4''-(1,3,5-Triazine-2,4,6-triyl)trianiline

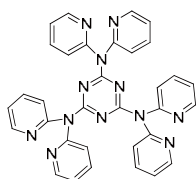
CAT# PH042



CAS# [14544-47-9]
Formula $C_{21}H_{18}N_6$
FW 354.41

N²,N²,N⁴,N⁴,N⁶,N⁶-hexa(pyridin-2-yl)-1,3,5-triazine-2,4,6-triamine

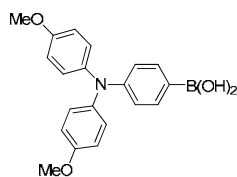
CAT# PH044



CAS#
Formula $C_{33}H_{24}N_{12}$
FW 588.62

(4-(Bis(4-methoxyphenyl)amino)phenyl)boronic acid

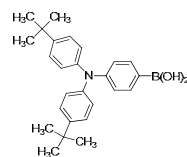
CAT# BA050



CAS# [201802-29-1]
Formula $C_{20}H_{20}BNO_4$
FW 349.19

(4-(Bis(4-tert-butyl)phenyl)amino)phenyl)boronic acid

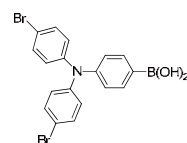
CAT# BA051



CAS#
Formula $C_{26}H_{32}BNO_2$
FW 401.35

(4-(Bis(4-bromophenyl)amino)phenyl)boronic acid

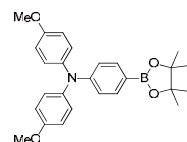
CAT# BA052



CAS# [300700-19-0]
Formula $C_{18}H_{14}BBr_2NO_2$
FW 446.93

4-Methoxy-N-(4-methoxyphenyl)-N-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)aniline

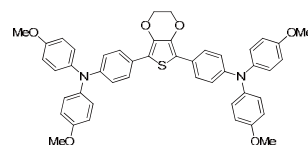
CAT# BA060



CAS#
Formula $C_{26}H_{30}BNO_4$
FW 431.33

4,4'-(2,3-Dihydrothieno[3,4-b][1,4]dioxine-5,7-diyl)bis(N,N-bis(4-methoxyphenyl)aniline)

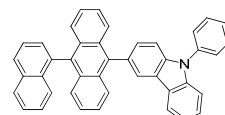
CAT# HT035



CAS#
Formula $C_{46}H_{40}N_2O_6S$
FW 748.88

Fluorescent Dopants**9-(9-phenylcarbazole-3-yl)-10-(naphthalene-1-yl)anthracene**

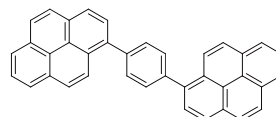
CAT# FD001



CAS#
Formula $C_{42}H_{27}N$
FW 545.67

Fluorescent Host Materials**1,4-Di(pyren-1-yl)benzene**

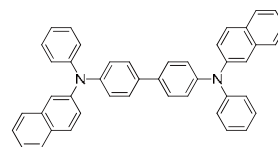
CAT# FH001



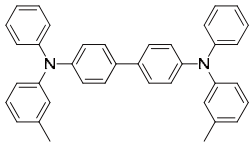
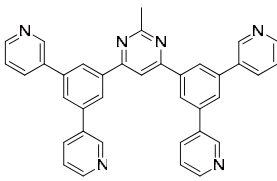
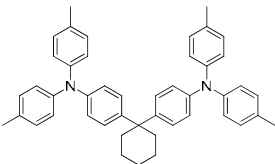
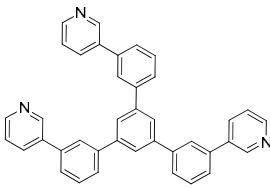
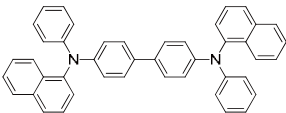
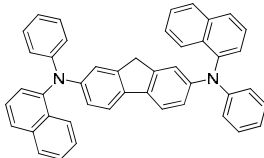
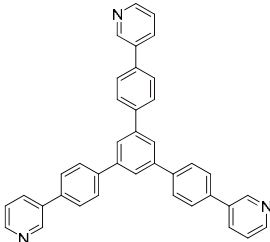
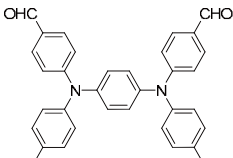
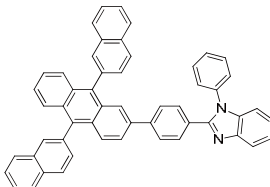
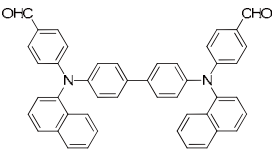
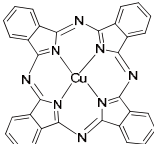
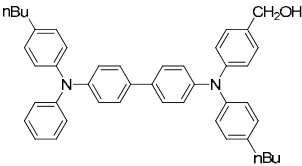
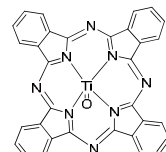
CAS# [475460-77-6]
Formula $C_{38}H_{22}$
FW 478.58

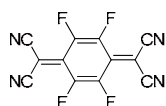
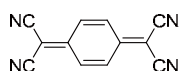
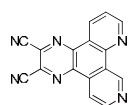
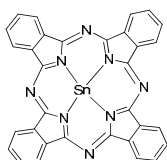
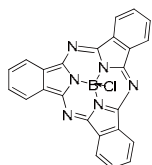
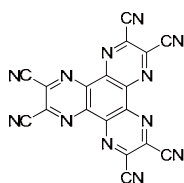
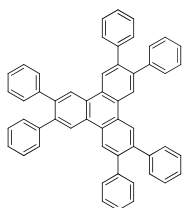
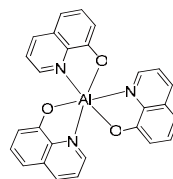
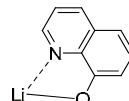
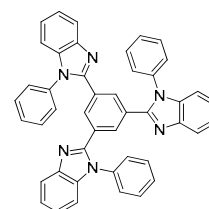
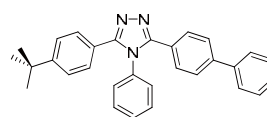
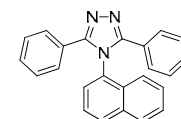
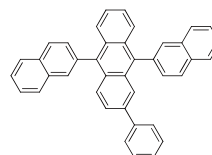
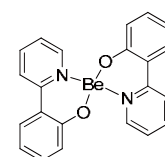
Hole Transport Materials**N,N'-Bis(naphthalen-2-yl)-N,N'-bis(phenyl)-benzidine****β-NPB**

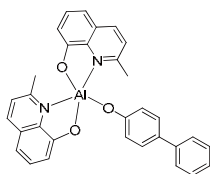
CAT# HT005



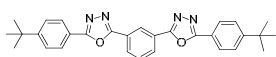
CAS# [139255-17-7]
Formula $C_{44}H_{32}N_2$
FW 588.74
 λ_{ab} 349 nm (THF)
 λ_{em} 416 nm (THF)

<i>N,N'</i>-Bis(3-methylphenyl)-<i>N,N'</i>-bis(phenyl)benzidine TPD CAT# HT006  CAS# [65181-78-4] Formula C ₃₈ H ₃₂ N ₂ FW 516.7	4,6-Bis(3,5-di(pyridin-3-yl)phenyl)-2-methylpyrimidine CAT# HT012  CAS# [925425-96-3] Formula C ₃₇ H ₂₆ N ₆ FW 554.64
1,1'-Bis(4-(dip-tolylamino)phenyl)cyclohexane TAPC CAT# HT007  CAS# [58473-78-2] Formula C ₄₆ H ₄₆ N ₂ FW 626.87	1,3,5-Tri(<i>m</i>-pyrid-3-yl-phenyl)benzene CAT# HT015  CAS# [921205-03-0] Formula C ₃₉ H ₂₇ N ₃ FW 537.65
<i>N,N'</i>-Bis(naphthalen-1-yl)-<i>N,N'</i>-bis(phenyl)-benzidine α-NPB CAT# HT008  CAS# [123847-85-8] Formula C ₄₄ H ₃₂ N ₂ FW 588.74	1,3,5-Tri(<i>p</i>-pyrid-3-yl-phenyl)benzene CAT# HT016
<i>N,N'</i>-Di(naphthalen-1-yl)-<i>N,N'</i>-diphenyl-9H-fluorene-2,7-diamine CAT# HT010  CAS# [273381-61-6] Formula C ₄₅ H ₃₂ N ₂ FW 600.75	 CAS# [921205-02-9] Formula C ₃₉ H ₂₇ N ₃ FW 537.65
4,4'-(1,4-Phenylenebis(<i>p</i>-tolylazanediyl))dibenzaldehyde CAT# IN1301  CAS# [131660-39-4] Formula C ₃₄ H ₂₈ N ₂ O ₂ FW 496.60	2-(4-(9,10-Di(naphthalen-2-yl)anthracen-2-yl)phenyl)-1-phenyl-1H-benzo[d]imidazole CAT# HT020  CAS# [921205-02-9] Formula C ₃₉ H ₂₇ N ₃ FW 537.65
4,4'-(Biphenyl-4,4'-diylbis(1-naphthalene-1-ylazanediyl))dibenzaldehyde CAT# IN1303  CAS# [854938-56-0] Formula C ₄₆ H ₃₂ N ₂ O ₂ FW 644.76	Hole Injection Materials Phthalocyanine Copper complex CuPc CAT# HI001  CAS# [147-14-8] Formula C ₃₂ H ₁₆ N ₈ Cu FW 576.07
(4-((4-Butylphenyl)(4'-((4-butylphenyl)(phenyl)amino)biphenyl-4-yl)amino)phenyl)methanol CAT# IN1005  CAS# [275793-98-1] Formula C ₄₅ H ₄₆ N ₂ O FW 630.86	Titanium oxide phthalocyanine TioPC CAT# HI002  CAS# [26201-32-1] Formula C ₃₂ H ₁₆ N ₈ O ₄ Ti FW 576.39

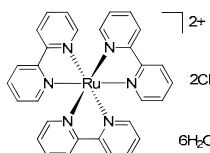
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane**F4-TCNQ****CAT# HI003**
CAS# [29261-33-4]
Formula C₁₂F₄N₄
FW 276.15
(2,5-Cyclohexadiene-1,4-diylidene)-dimalononitrile**TCNQ****CAT# HI004**
CAS# [1518-16-7]
Formula C₁₂H₄N₄
FW 204.19
Pyrazino[2,3-f][1,10]phenanthroline-2,3-dicarbonitrile**PPDN****CAT# HI005**
CAS# [215611-93-1]
Formula C₁₆H₆N₆
FW 282.26
Tin(II) Phthalocyanine**SnPC****CAT# HI006**
CAS# [15304-57-1]
Formula C₃₂H₁₆N₈Sn
FW 631.23
Boron subphthalocyanine chloride**SubPc****CAT# HI007**
CAS# [36530-06-0]
Formula C₂₄H₁₂BN₃Cl
FW 430.66
Hexaazatriphenylenehexacarbonitrile**HAT-CN****CAT# HI010**
CAS# [105598-27-4]
Formula C₁₈N₁₂
FW 384.27
Electron Injection Materials**2,3,6,7,10,11-Hexaphenyltriphenylene****CAT# EI003**
CAS# [836671-27-3]
Formula C₅₄H₃₆
FW 684.86
Electron Transport Materials**Tris(8-hydroxyquinolinato)aluminum****Alq3****CAT# ET001**
CAS# [2085-33-8]
Formula C₂₇H₁₈AlN₃O₃
FW 459.43
8-Hydroxyquinolinolato-lithium**Liq****CAT# ET002**
CAS# [850918-68-2]
Formula C₉H₆LiNO
FW 151.09
2,2',2''-(1,3,5-Benzenetriyl)tris(1-phenyl-1H-benzimidazole)**TPBI****CAT# ET003**
CAS# [192198-85-9]
Formula C₄₅H₃₀N₆
FW 654.76
3-(4-Biphenyl)-4-phenyl-5-tert-butylphenyl-1,2,4-triazole**TAZ****CAT# ET004**
CAS# [150405-69-9]
Formula C₃₀H₂₇N₃
FW 429.56
4-(Naphthalen-1-yl)-3,5-diphenyl-4H-1,2,4-triazole**NTAZ****CAT# ET005**
CAS# [16152-10-6]
Formula C₂₄H₁₇N₃
FW 347.41
2-Phenyl-9,10-di(naphthalen-2-yl)-anthracene**PADN****CAT# ET006**
CAS# [865435-20-7]
Formula C₄₀H₂₆
FW 506.63
λ_{ab} 284 nm (CH₂Cl₂)
λ_{em} 440 nm (CH₂Cl₂)
Bis(2-(2-hydroxyphenyl)-pyridine)beryllium**Be(PP)₂****CAT# ET007**
CAS# [220694-90-6]
Formula C₂₂H₁₆BeN₂O₂
FW 349.39

Bis(2-methyl-8-quinolinolato-N1,O8)-(1,1'-Biphenyl-4-olato) aluminum
BAIq3 **CAT# ET008**


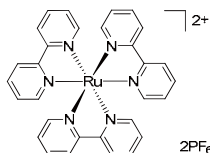
CAS# [146162-54-1]
 Formula $C_{32}H_{26}AlN_2O_3$
 FW 512.54

2,2'-(1,3-Phenylene)bis[5-(4-tert-butylphenyl)-1,3,4-oxadiazole]
CAT# ET010


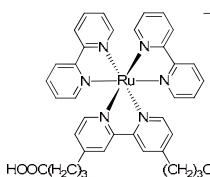
CAS# [138372-67-5]
 Formula $C_{30}H_{30}N_4O_2$
 FW 478.58

LEEC (Light Emitting Electrochemical Cell)
Tris(2,2'-bipyridyl)ruthenium(II)dichloride hexahydrate
CAT# RU001001001CI


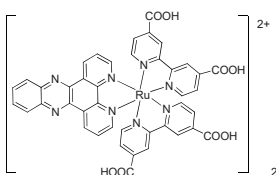
CAS# [50525-27-4]
 Formula $C_{30}H_{24}Cl_2N_6Ru \cdot 6H_2O$
 FW 748.62

Tris(2,2'-bipyridyl)ruthenium(II) bishexafluorophosphate
CAT# RU001001001PF6


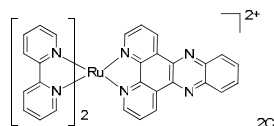
CAS# [60804-74-2]
 Formula $C_{30}H_{24}F_{12}N_6P_2Ru$
 FW 859.54

Bis(2,2'-bipyridyl)(2,2'-bipyridine-4,4'-dibutanoic acid)ruthenium(II) dichloride
CAT# RU001001442CI


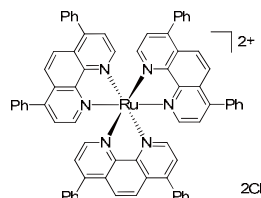
CAS#
 Formula $C_{38}H_{36}Cl_2N_6O_4Ru$
 FW 812.8

Bis(4,4'-Dicarboxyl-2,2'-bipyridyl)(4,5,9,14-Tetraaza-benzo[b]triphenylene)ruthenium(II) dichloride
CAT# RU111029029CI


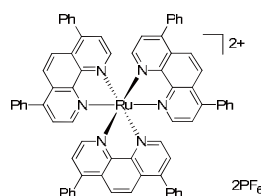
CAS#
 Formula $C_{42}H_{26}Cl_2N_8O_8Ru$
 FW 942.6

Bis(2,2'-bipyridyl)(4,5,9,14-Tetraaza-benzo[b]triphenylene)ruthenium (II) dichloride
CAT# RU001001111CI


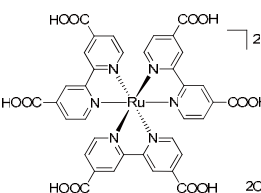
CAS#
 Formula $C_{38}H_{26}Cl_2N_8Ru$
 FW 766.64

Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride
CAT# RU08808088CI


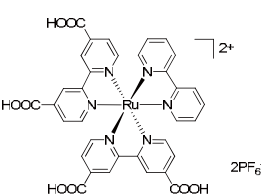
CAS# [36309-88-3]
 Formula $C_{72}H_{48}N_6Cl_2Ru$
 FW 1169.17

Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) bishexafluorophosphate
CAT# RU08808088PF6


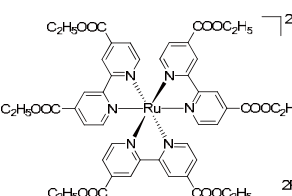
CAS# [123148-15-2]
 Formula $C_{72}H_{48}F_{12}N_6P_2Ru$
 FW 1388.19

Tris(4,4'-dicarboxylicacid-2,2'-bipyridyl)ruthenium(II) dichloride
CAT# RU029029029CI


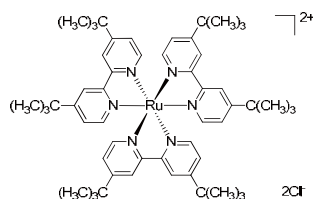
CAS# [97333-46-5]
 Formula $C_{36}H_{24}N_6O_{12}Cl_2Ru$
 FW 904.59

Tris(4,4'-dicarboxylicacid-2,2'-bipyridyl)ruthenium(II) dichloride
CAT# RU001029029PF6


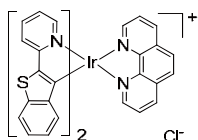
CAS#
 Formula $C_{34}H_{24}F_{12}N_6O_8P_2Ru$
 FW 1035.59

Tris(4,4'-diethoxycarbonly-2,2'-bipyridyl)ruthenium(II) bishexafluorophosphate
CAT# RU037037037PF6


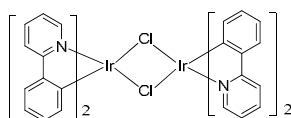
CAS#
 Formula $C_{48}H_{48}F_{12}N_6O_{12}P_2Ru$
 FW 1291.92

Tris(4,4'-ditertbutyl-2,2'-bipyridyl)ruthenium(II) dichloride**CAT# RU030030030CI**

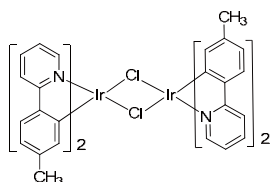
CAS#
Formula $C_{54}H_{72}N_6Cl_2Ru$
FW 977.18

Bis(2-(benzo[b]thiophen-2-yl)pyridyl- C^2, N')(2-Benzo[h]quinoline)iridium(III) chloride**CAT# IR068629629CI**

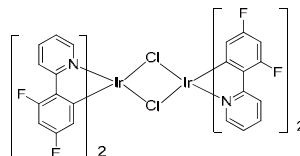
CAS#
Formula $C_{38}H_{24}N_4S_2ClIr$
FW 828.1
 λ_{em} 522 nm (acetonitrile)

Dichloro-bridged Iridium(III) Complexes**Tetrakis(2-phenylpyridine- C^2, N')(μ -dichloro)diiridium(III)****CAT# 2IR601**

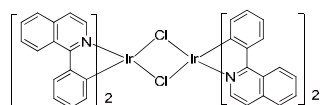
CAS# [92220-65-0]
Formula $C_{44}H_{32}Cl_2Ir_2N_4$
FW 1072.09

Tetrakis(2-(p-tolyl)pyridine- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR602**

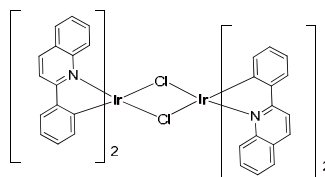
CAS#
Formula $C_{48}H_{40}Cl_2Ir_2N_4$
FW 1128.22

Tetrakis(4,6-difluoro-2-(2-pyridyl)phenyl- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR604**

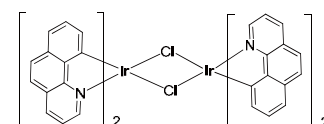
CAS# [562824-27-5]
Formula $C_{44}H_{24}Cl_2Ir_2N_4F_8$
FW 1216.02

Tetrakis(1-phenylisoquinoline- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR617**

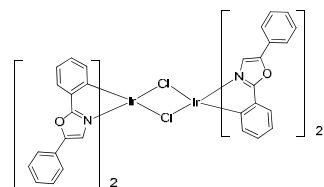
CAS#
Formula $C_{60}H_{40}Cl_2Ir_2N_4$
FW 1272.33

Tetrakis(2-phenylquinoline- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR618**

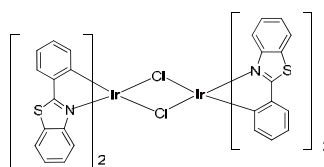
CAS#
Formula $C_{60}H_{40}Cl_2Ir_2N_4$
FW 1272.33

Tetrakis(benzo[h]quinoline- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR621**

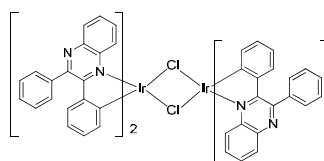
CAS#
Formula $C_{52}H_{32}Cl_2Ir_2N_4$
FW 1168.18

Tetrakis(2,5-diphenyloxazole- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR624**

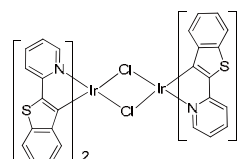
CAS#
Formula $C_{60}H_{40}Cl_2Ir_2N_4O_4$
FW 1336.32

Tetrakis(2-phenylbenzothiazole- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR625**

CAS#
Formula $C_{52}H_{32}Cl_2Ir_2N_4S_4$
FW 1296.44

Tetrakis(2,3-diphenylquinoxaline- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR628**

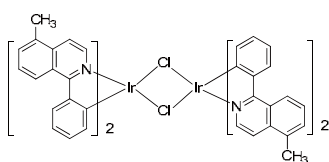
CAS#
Formula $C_{80}H_{52}Cl_2Ir_2N_8$
FW 1580.66

Tetrakis(2-(benzo[b]thiophen-2-yl)pyridine- C^2, N')(μ -dichloro)diiridium(III)**CAT# 2IR629**

CAS#
Formula $C_{52}H_{32}Cl_2Ir_2N_4S_4$
FW 1296.44

Tetrakis(5-methyl-1-phenylisoquinoline- C^2,N')(μ -dichloro) diiridium(III)

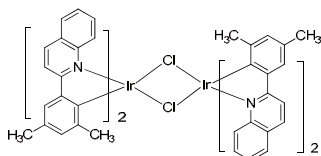
CAT# 2IR632



CAS#
Formula $C_{64}H_{48}Cl_2Ir_2N_4$
FW 1328.46

Tetrakis(2-(3,5-Dimethylphenyl)quinoline- C^2,N')(μ -dichloro) diiridium(III)

CAT# 2IR633

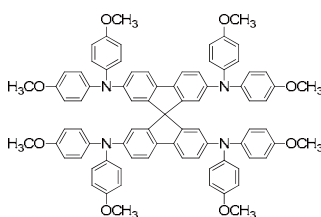


CAS#
Formula $C_{68}H_{56}Cl_2Ir_2N_4$
FW 1384.54

**OPV & OTFT
Materials/Monomers/ Intermediates**
2,2',7,7'-Tetrakis(N,N-p-dimethoxyphenylamino)-9,9'-spirobifluorene

Spiro-MeOTAD

CAT# OP001

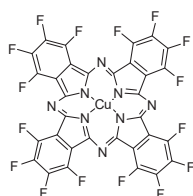


CAS# [207739-72-8]
Formula: $C_{81}H_{68}N_4O_8$
FW: 1225.43

Copper(II)1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecafluoro-29 H,31H-phthalocyanine

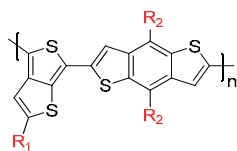
F16CuPC

CAT# OE001



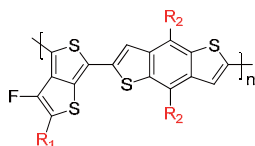
CAS# [14916-87-1]
Formula $C_{32}N_8F_{16}Cu$
FW 863.92
 λ_{em} 590 nm (THF)

CAT# OP002



Custom synthesis
Please inquire

CAT# OP003

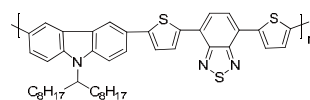


Custom synthesis
Please inquire

Poly[[9-(1-octylonyl)-9H-carbazole-2,7-diyl]-2,5-thiophenediyl-2,1,3-benzothiadiazole-4,7-diyl-2,5-thiophenediyl]

PCDTBT

CAT# Sunamer502

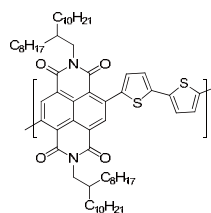


CAS# [958261-50-2]
Formula $(C_{43}H_{47}N_3S_3)_n$

Poly(2,7-bis(2-octyldodecyl)benzo[Imn][3,8]phenanthroline-1,3,6,8 (2H,7H)-tetraone-4,9-diyl)[(2,2'-bithiophenyl-5,5'-diyl]

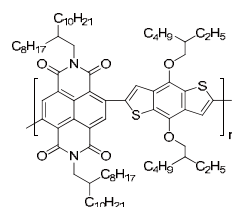
N2200

CAT# Sunamer901

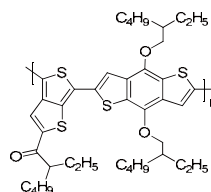


CAS#
Formula $(C_{62}H_{90}N_2S_2O_4)_n$

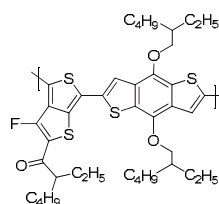
CAT# Sunamer902



CAT# Sunamer101

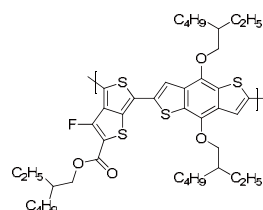


CAT# Sunamer102


Poly[[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl][3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-b]thiophenediyl]]

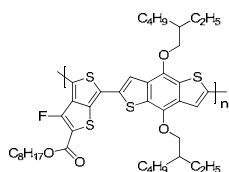
PTB7

CAT# Sunamer103



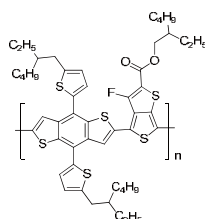
CAS#
Formula $(C_{41}H_{53}FO_4S_4)_n$

Poly-[[4,8-bis((2-ethylhexyl)oxy)-benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-alt-[3-fluore-2-(octyloxy)-carbonylthieno[3,4-b]thiophene-4,6-diyl]]
PTB4 **CAT# Sunamer104**



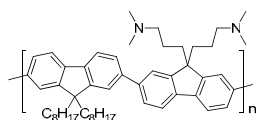
CAS#
 Formula $(C_{41}H_{53}FO_4S_4)_n$

Poly[4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-alt-(4-(2-ethylhexyl)-3-fluorothieno[3,4-b]thiophene-2-carboxylate-2,6-diyl)]
PTB-TH **CAT# Sunamer105**



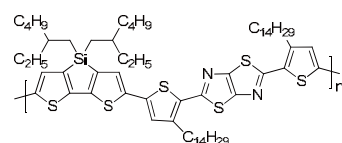
CAS#
 Formula $(C_{49}H_{59}FO_2S_6)_n$

Poly[(9,9-bis(3'-(N,N-dimethylamino)propyl)-2,7-fluorene)-alt-2,7-(9,9-octylfluorene)]
PFN **CAT# Sunamer301**

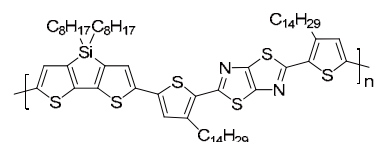


CAS# [673474-74-3]
 Formula $(C_{52}H_{70}N_2)_n$

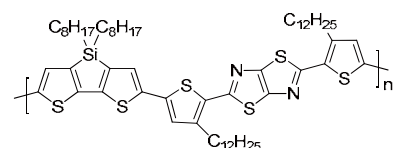
CAT# Sunamer401



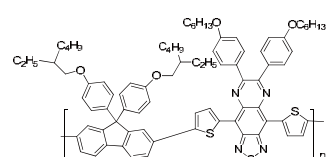
CAT# Sunamer405



CAT# Sunamer406

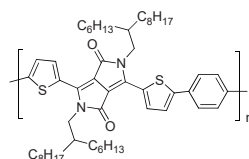


Poly[9,9-bis(4-(2-ethylhexyl)phenyl)fluorene-alt-co-6,7-bis(4-(hexyloxy)phenyl)-4,9-di(thiophen-2-yl)-thiadiazoloquinoline]
PFTTQ **CAT# Sunamer601**



CAS#
 Formula $(C_{81}H_{86}N_4O_4S_3)_n$

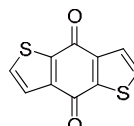
Poly[[2,5-bis(2-hexyldecyl)-2,3,5,6-tetrahydro-3,6-dioxopyrrolo[3,4-c]pyrrole-1,4-diyl]-alt-[[2,2'-(1,4-phenylene)bisthiophene]-5,5'-diyl]]
PDPPTPT **CAT# Sunamer701**



CAS#
 Formula $(C_{52}H_{74}N_2O_2S_2)_n$

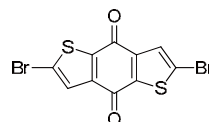
Monomer-BDT Series

4,8-Dihydrobenzo[1,2-b:4,5-b']dithiophene-4,8-dione
BDT **CAT# OC1016**



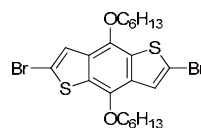
CAS# [32281-36-0]
 Formula $C_{10}H_4O_2S_2$
 FW 220.27

2,6-Dibromobenzo[1,2-b:4,5-b']dithiophene-4,8-dione
CAT# OC1116



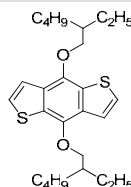
CAS#
 Formula $C_{10}H_2Br_2O_2S_2$
 FW 378.06

2,6-Dibromo-4,8-bis(hexyloxy)benzo[1,2-b:4,5-b']dithiophene
CAT# IN1193



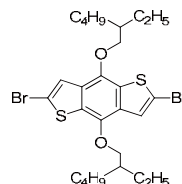
CAS# [359017-65-5]
 Formula $C_{22}H_{28}Br_2O_2S_2$
 FW 548.39

4,8-Bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b']dithiophene
BDT-OEH **CAT# IN1055**



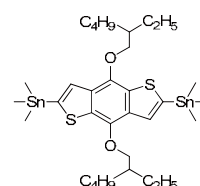
CAS# [1160823-77-7]
 Formula $C_{26}H_{38}O_2S_2$
 FW 446.71

2,6-Dibromo-4,8-bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b']dithiophene
2Br-BDT-OEH **CAT# IN1056**



CAS# [1226782-13-3]
 Formula $C_{26}H_{36}Br_2O_2S_2$
 FW 604.50

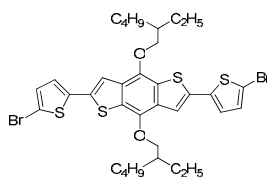
2,6-Bis(trimethyltin)-4,8-bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b']dithiophene
2Sn-BDT-OEH **CAT# IN1016**



CAS# [1160823-78-8]
 Formula $C_{32}H_{54}O_2S_2Sn_2$
 FW 772.32

2,6-Bis(5-bromothiophen-2-yl)-4,8-bis((2-ethylhexyl)oxy)benzo[1,2-b:4,5-b']dithiophene

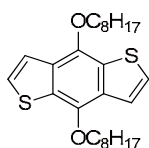
CAT# IN1187



CAS#
Formula $C_{34}H_{40}Br_2O_2S_4$
FW 768.75

4,8-Dioctyloxybenzo[1,2-b:3,4-b']dithiophene
BDT-OCT

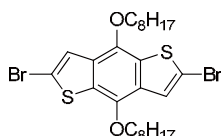
CAT# IN1130



CAS# [1098102-94-3]
Formula $C_{26}H_{38}O_2S_2$
FW 446.71

2,6-Dibromo-4,8-bis(octyloxy)benzo[1,2-b:4,5-b']dithiophene
2Br-BDT-OCT

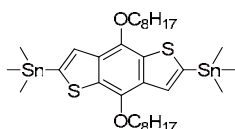
CAT# IN1131



CAS# [1294515-75-5]
Formula $C_{26}H_{38}Br_2O_2S_2$
FW 604.50

2,6-Bis(trimethyltin)-4,8-dioctyloxybenzo[1,2-b:3,4-b']dithiophene
2Sn-BDT-OCT

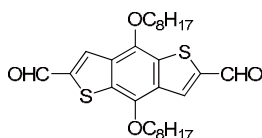
CAT# IN1132



CAS# [1098102-95-4]
Formula $C_{32}H_{54}O_2S_2Sn_2$
FW 772.32

2,6-Dicarbaldehyde-4,8-dioctyloxybenzo[1,2-b:3,4-b']dithiophene

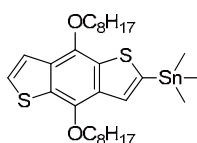
CAT# IN1133



CAS#
Formula $C_{28}H_{38}O_4S_2$
FW 502.73

(4,8-Bis(octyloxy)benzo[1,2-b:4,5-b']dithiophen-2-yl)trimethylstannane

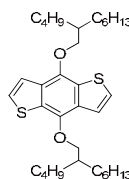
CAT# IN1134



CAS# [1625696-07-2]
Formula $C_{29}H_{46}O_2S_2Sn$
FW 609.51

4,8-Bis((2-butyloctyl)oxy)benzo[1,2-b:4,5-b']dithiophene
BDT-OBO

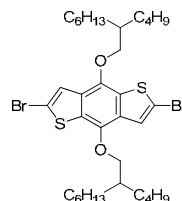
CAT# IN1140



CAS# [1321590-78-6]
Formula $C_{34}H_{54}O_2S_2$
FW 558.92

2,6-Dibromo-4,8-bis((2-butyloctyl)oxy)benzo[1,2-b:4,5-b']dithiophene
2Br-BDT-OBO

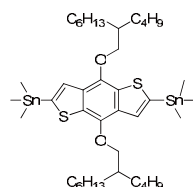
CAT# IN1141



CAS# [1336893-15-2]
Formula $C_{34}H_{52}Br_2O_2S_2$
FW 716.71

(4,8-Bis((2-butyloctyl)oxy)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)
2Sn-BDT-OBO

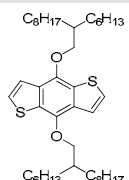
CAT# IN1142



CAS# [1271439-08-7]
Formula $C_{40}H_{70}O_2S_2Sn_2$
FW 884.53

4,8-Bis((2-hexyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene

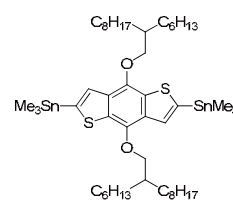
CAT# IN1146



CAS#
Formula $C_{42}H_{70}O_2S_2$
FW 671.13

(4,8-Bis((2-hexyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

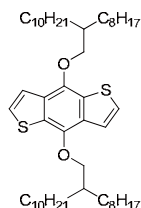
CAT# IN1149



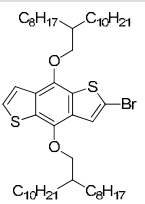
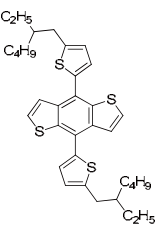
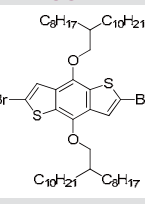
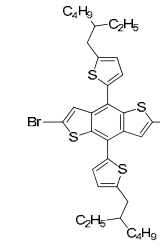
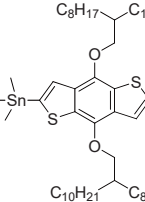
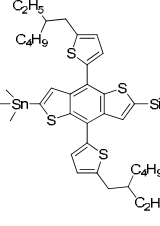
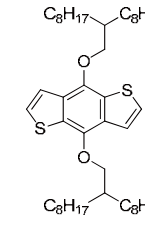
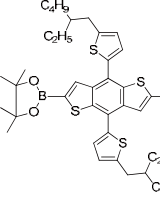
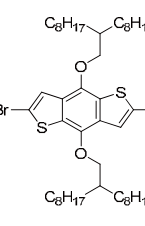
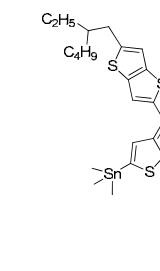
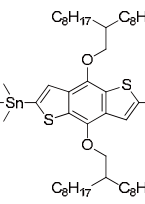
CAS#
Formula $C_{48}H_{86}O_2S_2Sn_2$
FW 996.75

4,8-Bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene
BDT-ODDD

CAT# IN1160

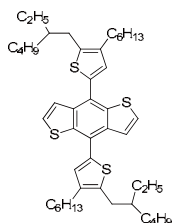


CAS# [1320201-19-1]
Formula $C_{50}H_{86}O_2S_2$
FW 783.35

2-Bromo-4,8-bis((2-ctyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene CAT# IN1186  CAS# Formula FW C₅₀H₈₅BrO₂S₂ 862.24	4,8-Bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene CAT# IN1170  CAS# Formula FW C₃₄H₄₂S₄ 578.96
2,6-Dibromo-4,8-bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene 2Br-BDT-OODD CAT# IN1161  CAS# Formula FW C₅₀H₈₄Br₂O₂S₂ 941.14	2,6-Dibromo-4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene CAT# IN1171  CAS# Formula FW C₃₄H₄₀Br₂S₄ 736.75
(4,8-Bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane) 2Sn-BDT-OODD CAT# IN1162  CAS# Formula FW [1320201-22-6] C₅₆H₁₀₂O₂S₂Sn₂ 1108.96	2,6-Bis(trimethyltin)-4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene CAT# IN1172  CAS# Formula FW [1352642-37-5] C₄₀H₅₈S₄Sn₂ 904.57
4,8-Bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene BDT-OOD CAT# IN1150  CAS# Formula FW C₄₆H₇₈O₂S₂ 727.24	2,2'-(4,8-Bis(5-(2-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolane) CAT# IN1770  CAS# Formula FW C₄₆H₆₄B₂O₂S₄ 830.88
2,6-Dibromo-4,8-bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene 2Br-BDT-OOD CAT# IN1151  CAS# Formula FW C₄₆H₇₆Br₂O₂S₂ 885.03	4,8-Bis(5-(2-ethylhexyl)thiophen-2-yl)thieno[3,2-b]thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane) CAT# IN1792  CAS# Formula FW C₄₄H₅₈S₆Sn₂ 1016.74
(4,8-Bis((2-octyldodecyl)oxy)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane) 2Sn-BDT-OOD CAT# IN1152  CAS# Formula FW C₅₂H₉₄O₂S₂Sn₂ 1052.85	

4,8-Bis(5-(2-ethylhexyl)-4-hexylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

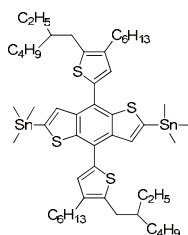
CAT# IN1773



CAS#
Formula $C_{48}H_{66}S_4$
FW 747.28

(4,8-Bis(5-(2-ethylhexyl)-4-hexylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

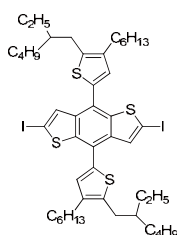
CAT# IN1774



CAS#
Formula $C_{52}H_{82}S_4Sn_2$
FW 803.38

4,8-Bis(5-(2-ethylhexyl)-4-hexylthiophen-2-yl)-2,6-diiodobenzo[1,2-b:4,5-b']dithiophene

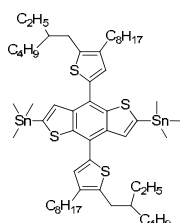
CAT# IN1775



CAS#
Formula $C_{48}H_{64}I_2S_4$
FW 999.07

(4,8-Bis(5-(2-ethylhexyl)-4-octylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

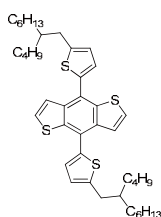
CAT# IN1777



CAS#
Formula $C_{56}H_{90}S_4Sn_2$
FW 1128.99

4,8-Bis(5-(2-butyloctyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

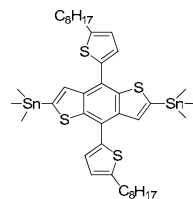
CAT# IN1165



CAS# [1443120-32-8]
Formula $C_{42}H_{58}S_4$
FW 691.17

(4,8-Bis(5-octylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

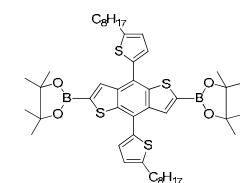
CAT# IN1168



CAS#
Formula $C_{40}H_{58}S_4Sn_2$
FW 904.50

2,2'-(4,8-Bis(5-octylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolane)

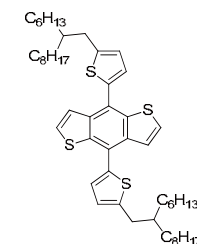
CAT# IN1167



CAS#
Formula $C_{46}H_{64}B_2O_4S_4$
FW 830.88

4,8-Bis(5-(2-hexyldecyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

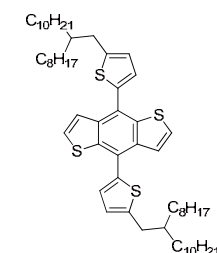
CAT# IN1174



CAS#
Formula $C_{50}H_{74}S_4$
FW 803.38

4,8-Bis(5-(2-octyldecyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

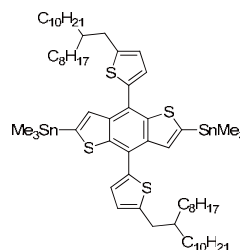
CAT# IN1173



CAS#
Formula $C_{58}H_{90}S_4$
FW 915.60

(4,8-Bis(2-(5-(2-octyldecyl))thiophene)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

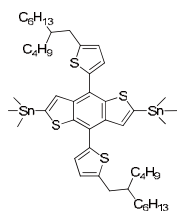
CAT# IN1175



CAS#
Formula $C_{64}H_{106}S_4Sn_2$
FW 1241.21

(4,8-Bis(5-(2-butyloctyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

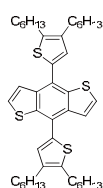
CAT# IN1176



CAS#
Formula $C_{48}H_{74}S_4Sn_2$
FW 1016.78

4,8-Bis(4,5-dihexylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

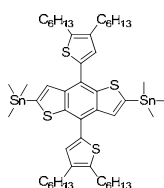
CAT# IN1181



CAS#
Formula $C_{42}H_{58}S_4$
FW 691.17

(4,8-Bis(4,5-dihexylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

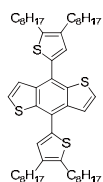
CAT# IN1180



CAS# [1402460-16-5]
Formula $C_{48}H_{74}S_4Sn_2$
FW 1016.78

4,8-Bis(4,5-dioctylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

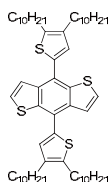
CAT# IN1188



CAS#
Formula $C_{50}H_{74}S_4$
FW 803.38

4,8-Bis(4,5-didecylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

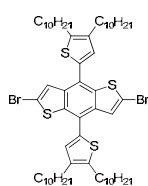
CAT# IN1178



CAS#
Formula $C_{58}H_{90}S_4$
FW 915.60

2,6-Dibromo-4,8-bis(4,5-didecylthiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

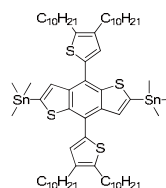
CAT# IN1169



CAS#
Formula $C_{58}H_{88}Br_2S_4$
FW 1073.39

(4,8-Bis(2-(3,5-didecyl)thiophene)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

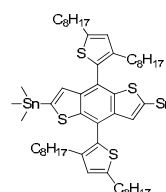
CAT# IN1179



CAS# [1307899-54-2]
Formula $C_{64}H_{106}S_4Sn_2$
FW 1241.21

(4,8-Bis(2-(3,5-dioctyl)thiophene)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

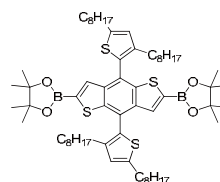
CAT# IN1182



CAS#
Formula $C_{56}H_{90}S_4Sn_2$
FW 1128.99

2,6-Bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-(4,8-bis(2-(3,5-dioctyl)thiophene)benzo[1,2-b:4,5-b']dithiophene

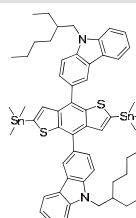
CAT# IN1185



CAS# [1221254-05-2]
Formula $C_{62}H_{96}B_2O_4S_4$
FW 1055.31

9-(2-Ethylhexyl)-3-(8-(1-(2-ethylhexyl)-2-methyl-3-vinyl-1H-indol-5-yl)-2,6-bis(trimethylstannyl)benzo[1,2-b:4,5-b']dithiophen-4-yl)-9H-carbazole

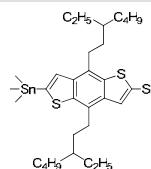
CAT# IN1760



CAS#
Formula $C_{55}H_{70}N_2S_2Sn_2$
FW 1060.71

(4,8-Bis(3-ethylheptyl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

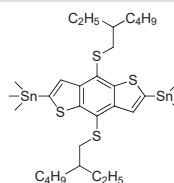
CAT# IN1190



CAS#
Formula $C_{34}H_{58}S_2Sn_2$
FW 768.37

(4,8-Bis((2-ethylhexyl)thio)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(trimethylstannane)

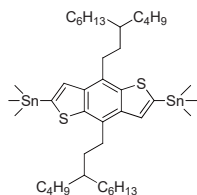
CAT# IN1191



CAS#
Formula $C_{32}H_{54}S_4Sn_2$
FW 804.45

(4,8-Bis(3-butylonyl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)bis(tri methylstannane)

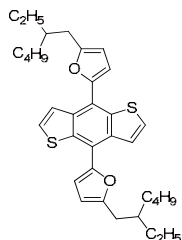
CAT# IN1192



CAS#
Formula $C_{42}H_{74}S_2Sn_2$
FW 880.59

4,8-Bis(5-(2-ethylhexyl)furan-2-yl)benzo[1,2-b:4,5-b']dithiophene

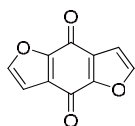
CAT# IN1177



CAS#
Formula $C_{34}H_{42}O_2S_2$
FW 546.83

Benzofuro[5,6-b]furan-4,8-dione

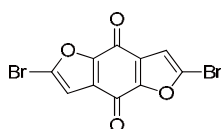
CAT# OC1130



CAS#
Formula $C_{10}H_4O_4$
FW 188.14

2,6-Dibromobenzo[1,2-b:4,5-b']difuran-4,8-dione

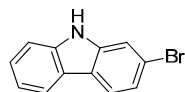
CAT# OC1131



CAS#
Formula $C_{10}H_2Br_2O_4$
FW 345.93

Monomer-Carbazole Series**2-Bromocarbazole**

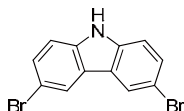
CAT# OC1090



CAS# [3652-90-2]
Formula $C_{12}H_8BrN$
FW 246.10

3,6-Dibromo-9H-carbazole

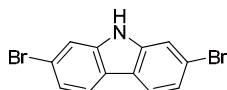
CAT# IN1001



CAS# [6825-20-3]
Formula $C_{12}H_7Br_2N$
FW 325.00

2,7-Dibromo-9H-carbazole

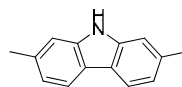
CAT# IN1003



CAS# [136630-39-2]
Formula $C_{12}H_7Br_2N$
FW 325.00

2,7-Dimethyl-9H-carbazole

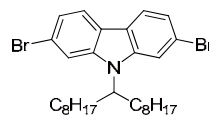
CAT# IN1258



CAS# [18992-65-9]
Formula $C_{14}H_{13}N$
FW 195.26

2,7-Dibromo-9-(1-octylonyl)-9H-carbazole

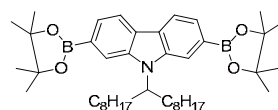
CAT# IN1008



CAS# [955964-73-5]
Formula $C_{29}H_{41}Br_2N$
FW 563.45

9-(Heptadecan-9-yl)-2,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-carbazole

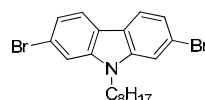
CAT# IN1009



CAS# [958261-51-3]
Formula $C_{41}H_{65}B_2NO_4$
FW 657.58

2,7-Dibromo-9-octyl-9H-carbazole

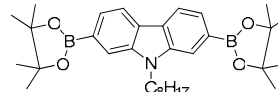
CAT# IN1029



CAS# [726169-75-1]
Formula $C_{20}H_{23}Br_2N$
FW 437.21

9-Octyl-2,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-carbazole

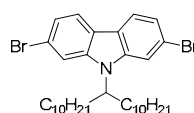
CAT# IN1048



CAS# [406726-92-9]
Formula $C_{32}H_{47}B_2NO_4$
FW 531.34

2,7-Dibromo-9-(henicosan-11-yl)-9H-carbazole

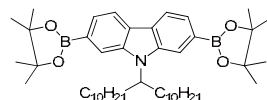
CAT# IN1128



CAS#
Formula $C_{33}H_{49}B_2N$
FW 619.56

9-(Henicosan-11-yl)-2,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-carbazole

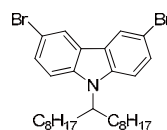
CAT# IN1129



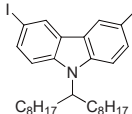
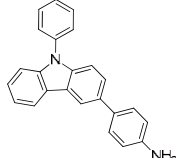
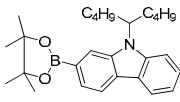
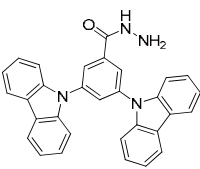
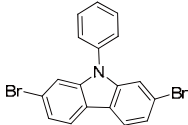
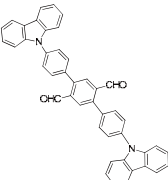
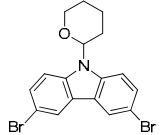
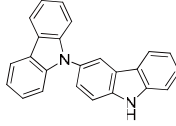
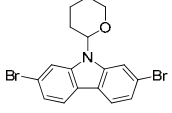
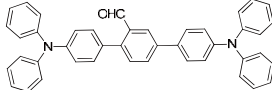
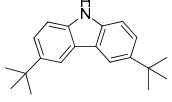
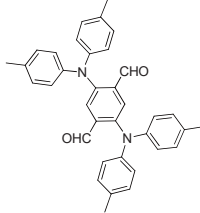
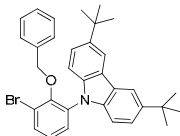
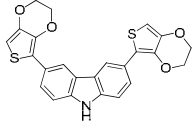
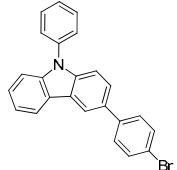
CAS# [711026-06-1]
Formula $C_{45}H_{73}B_2NO_4$
FW 713.69

3,6-Dibromo-9-(heptadecan-9-yl)-9H-carbazole

CAT# IN1138

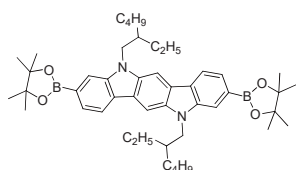


CAS# [1268491-06-0]
Formula $C_{29}H_{41}Br_2N$
FW 563.45

9-(Heptadecan-9-yl)-3,6-diiodo-9H-carbazole CAT# IN1139	4-(9-Phenyl-9,9a-dihydro-4aH-carbazol-6-yl)aniline CAT# OC1059
 CAS# Formula $C_{29}H_{41}I_2N$ FW 657.45	 CAS# Formula $C_{24}H_{20}N_2$ FW 336.43
9-(Nonan-5-yl)-2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-carbazole CAT# IN1820	3,5-Dicarbazol-9-ylbenzhydrazide CAT# OC1060
 CAS# Formula $C_{27}H_{38}BNO_2$ FW 419.41	 CAS# Formula $C_{31}H_{22}N_4O$ FW 466.53
2,7-Dibromo-9-phenyl-9H-carbazole CAT# IN1259	4,4''-Di(9H-carbazol-9-yl)-[1,1':4',1''-terphenyl]-2',5'-dicarbaldehyde CAT# OC1061
 CAS# [444796-09-2] Formula $C_{18}H_{11}Br_2N$ FW 401.09	 CAS# Formula $C_{44}H_{28}N_2O_2$ FW 616.71
3,6-Dibromo-9-(tetrahydro-2H-pyran-2-yl)-9H-carbazole CAT# IN1002	3-(9H-carbazol-9-yl)-9H-carbazole CAT# OC1062
 CAS# Formula $C_{17}H_{15}Br_2NO$ FW 409.12	 CAS# [18628-07-4] Formula $C_{24}H_{16}N_2$ FW 332.40
2,7-Dibromo-9-(tetrahydro-2H-pyran-2-yl)-9H-carbazole CAT# IN1004	4,4''-Bis(diphenylamino)-[1,1':4',1''-terphenyl]-2'-carbaldehyde CAT# OC1063
 CAS# Formula $C_{17}H_{15}Br_2NO$ FW 409.12	 CAS# Formula $C_{43}H_{32}N_2O$ FW 592.73
3,6-Di-tert-butyl-9H-carbazole CAT# OC1065	2,5-Bis(di-p-tolylamino)terephthalaldehyde CAT# OC1064
 CAS# [37500-95-1] Formula $C_{20}H_{25}N$ FW 279.42	 CAS# Formula $C_{36}H_{32}N_2O_2$ FW 524.65
9-(2-(Benzyloxy)-3-bromophenyl)-3,6-di-tert-butyl-9H-carbazole CAT# OC1068	3,6-Bis(2,3-dihydrothieno[3,4-b][1,4]dioxin-5-yl)-9H-carbazole CAT# IN1456
 CAS# Formula $C_{33}H_{34}BrNO$ FW 540.53	 CAS# Formula $C_{24}H_{17}NO_4S_2$ FW 447.53
3-(4-Bromophenyl)-9-phenyl-9H-carbazole CAT# OC1058	
 CAS# [1028647-93-9] Formula $C_{24}H_{16}BrN$ FW 398.29	

5,11-Bis(2-ethylhexyl)-3,9-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-5,11-dihydroindolo[3,2-b]carbazole

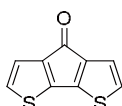
CAT# IN1458



CAS#
Formula $C_{46}H_{66}B_2N_2O_4$
FW 732.65

Monomer-CPP Series
4H-Cyclopenta[2,1-b:3,4-b']dithiophene-4-one

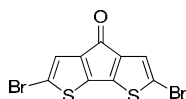
CAT# OC1015



CAS# [25796-77-4]
Formula $C_9H_4OS_2$
FW 192.26

2,6-Dibromo-4H-cyclopenta[1,2-b:5,4-b']dithiophene-4-one

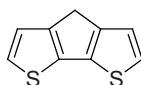
CAT# OC1115



CAS# [636588-79-9]
Formula $C_9H_2Br_2OS_2$
FW 350.05

4H-Cyclopenta[2,1-b:3,4-b']dithiophene

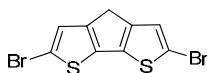
CAT# OC1017



CAS# [389-58-2]
Formula $C_9H_6S_2$
FW 178.27

2,6-Dibromo-3,4-dithia-7H-cyclopenta[a]pentalene

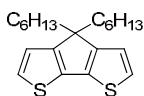
CAT# IN1011



CAS# [258527-25-2]
Formula $C_9H_4Br_2S_2$
FW 336.07

4,4-Dihexyl-4H-cyclopenta[2,1-b:3,4-b']dithiophene

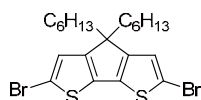
CAT# IN1250



CAS# [153312-86-8]
Formula $C_{21}H_{30}S_2$
FW 346.59

2,6-Dibromo-4,4-dihexyl-4H-cyclopenta[2,1-b:3,4-b']dithiophene

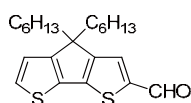
CAT# IN1252



CAS# [528570-55-0]
Formula $C_{21}H_{28}Br_2S_2$
FW 504.39

4,4-Dihexyl-4H-cyclopenta[1,2-b:5,4-b']dithiophene-2-carbaldehyde

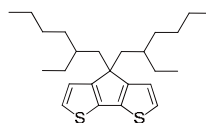
CAT# IN1270



CAS#
Formula $C_{22}H_{30}OS_2$
FW 374.60

4,4-Bis(2-ethylhexyl)-4H-cyclopenta[1,2-b:5,4-b'] dithiophene

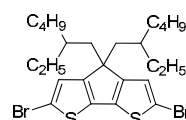
CAT# IN1060



CAS# [365547-20-2]
Formula $C_{28}H_{38}S_2$
FW 402.70

2,6-Dibromo-4,4-bis(2-ethylhexyl)-4H-cyclopenta[2,1-b:3,4-b'] dithiophene

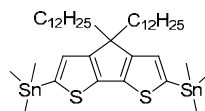
CAT# IN1010



CAS# [365547-21-3]
Formula $C_{28}H_{36}Br_2S_2$
FW 560.49

2,6-Bis(trimethyltin)-4,4-bis(2-dodecylbenzo)-4H-cyclopenta[2,1-b:3,4-b']dithiophene

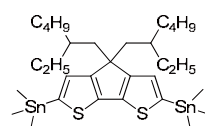
CAT# IN1240



CAS# [1201921-81-4]
Formula $C_{39}H_{70}S_2Sn_2$
FW 840.52

2,6-Bis(trimethyltin)-4,4-bis(2-ethylhexyl)-4H-cyclopenta[2,1-b:3,4-b'] dithiophene

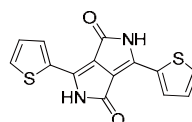
CAT# IN1242



CAS# [920504-00-3]
Formula $C_{31}H_{54}S_2Sn_2$
FW 728.31

Monomer-DPP Series
3,6-Di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4-dione

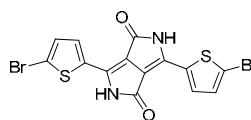
CAT# IN1323



CAS# [850583-75-4]
Formula $C_{14}H_8N_2O_2S_2$
FW 300.36

3,6-Bis(5-bromothiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

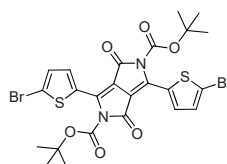
CAT# IN1322



CAS# [777079-55-7]
Formula $C_{14}H_6Br_2N_2O_2S_2$
FW 458.15

Di-tert-butyl 3,6-bis(5-bromothiophen-2-yl)-1,4-dioxopyrrolo[3,4-c]pyrrole-2,5(1H,4H)-dicarboxylate

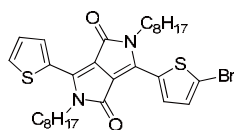
CAT# IN1325



CAS# [1046864-84-9]
Formula $C_{24}H_{22}Br_2N_2O_6S_2$
FW 658.38

3-(5-Bromothiophen-2-yl)-2,5-dioctyl-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

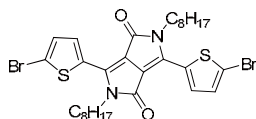
CAT# IN1321



CAS# [1335015-92-3]
Formula C₃₀H₃₈BrN₂O₂S₂
FW 603.68

3,6-Bis(5-bromothiophen-2-yl)-2,5-dioctylpyrrolo[3,4-c]pyrrole-1,4-dione

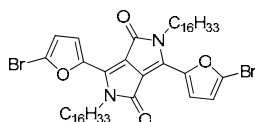
CAT# IN1326



CAS# [1057401-13-4]
Formula C₃₀H₃₈Br₂N₂O₂S₂
FW 682.57

3,6-Bis(5-bromofuran-2-yl)-2,5-dihexadecylpyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

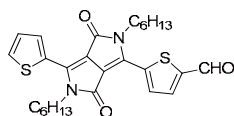
CAT# IN1338



CAS# [1057401-13-4]
Formula C₄₆H₇₀Br₂N₂O₄
FW 874.87

5-(2,5-Dihexyl-3,6-dioxo-4-(thiophen-2-yl)-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrol-1-yl)thiophene-2-carbaldehyde

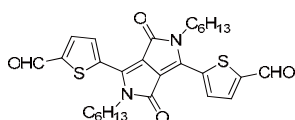
CAT# IN1356



CAS# [1057401-13-4]
Formula C₂₇H₃₂N₂O₃S₂
FW 496.68

5,5'-(2,5-Dihexyl-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)bis(thiophene-2-carbaldehyde)

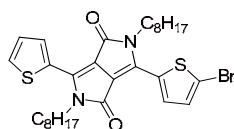
CAT# IN1339



CAS# [1057401-13-4]
Formula C₂₈H₃₂N₂O₄S₂
FW 524.69

3-(5-Bromothiophen-2-yl)-2,5-dioctyl-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

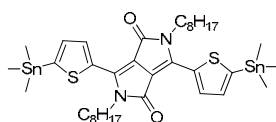
CAT# IN1321



CAS# [1335015-92-3]
Formula C₃₀H₃₈BrN₂O₂S₂
FW 603.68

2,5-Dioctyl-3,6-bis(5-(trimethylstannyl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

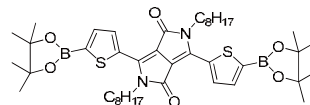
CAT# IN1346



CAS# [1613705-06-8]
Formula C₃₆H₅₆N₂O₂S₂Sn₂
FW 850.39

2,5-Dioctyl-3,6-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

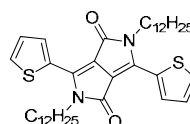
CAT# IN1347



CAS# [1335015-92-3]
Formula C₄₂H₆₂N₂B₂O₆S₂
FW 776.70

2,5-Didodecyl-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

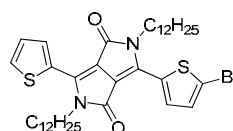
CAT# IN1355



CAS# [1057401-13-4]
Formula C₃₈H₅₆N₂O₂S₂
FW 636.99

3-(5-Bromothiophen-2-yl)-2,5-didodecyl-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

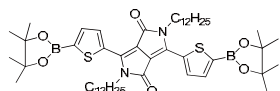
CAT# IN1395



CAS# [1057401-13-4]
Formula C₃₈H₅₆BrN₂O₂S₂
FW 715.89

2,5-Didodecyl-3,6-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

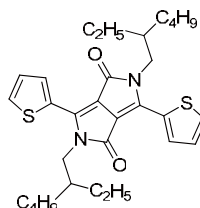
CAT# IN1357



CAS# [1057401-13-4]
Formula C₅₀H₇₈B₂N₂O₆S₂
FW 888.92

2,5-Bis(2-ethylhexyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

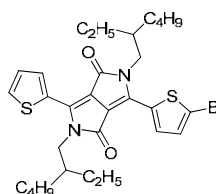
CAT# IN1320



CAS# [1185885-86-2]
Formula C₃₀H₄₀N₂O₂S₂
FW 524.78

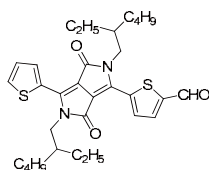
3-(5-Bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1340



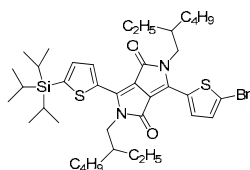
CAS# [1308671-90-0]
Formula C₃₀H₃₈BrN₂O₂S₂
FW 603.68

5-(2,5-Bis(2-ethylhexyl)-3,6-dioxo-4-(thiophen-2-yl)-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrol-1-yl)thiophene-2-carbaldehyde
CAT# IN1344



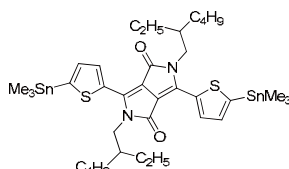
CAS#
Formula $C_{31}H_{40}N_2O_3S_2$
FW 552.79

3-(5-Bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)-6-(5-(triisopropylsilyl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1390



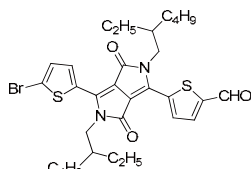
CAS#
Formula $C_{39}H_{59}BrN_2O_2S_2Si$
FW 760.02

2,5-Bis(2-ethylhexyl)-3,6-bis(5-(trimethylstannyl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1391



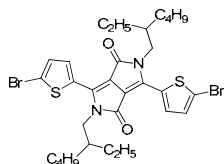
CAS# [1392422-47-7]
Formula $C_{38}H_{58}N_2O_2S_2Sn_2$
FW 850.39

5-(4-(5-Bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrol-1-yl)thiophene-2-carbaldehyde
CAT# IN1384



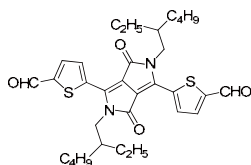
CAS#
Formula $C_{31}H_{38}BrN_2O_3S_2$
FW 631.69

3,6-Bis(5-bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-c]pyrrole-1,4-dione
CAT# IN1327



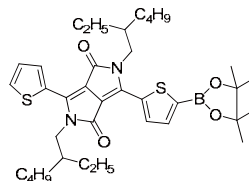
CAS# [1000623-95-9]
Formula $C_{30}H_{38}Br_2N_2O_2S_2$
FW 682.57

5,5'-(2,5-Bis(2-ethylhexyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)bis(thiophene-2-carbaldehyde)
CAT# IN1343



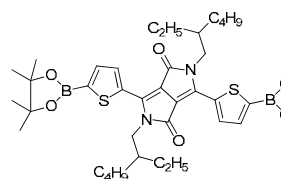
CAS#
Formula $C_{32}H_{40}N_2O_4S_2$
FW 580.80

2,5-Bis(2-ethylhexyl)-3-(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1334



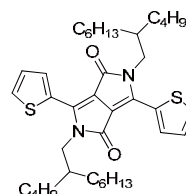
CAS#
Formula $C_{36}H_{51}BN_2O_4S_2$
FW 650.74

2,5-Bis(2-ethylhexyl)-3,6-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1335



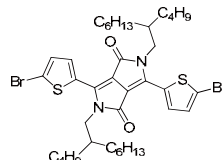
CAS# [1269004-46-7]
Formula $C_{42}H_{62}B_2N_2O_6S_2$
FW 776.70

2,5-Bis(2-butyloctyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1328



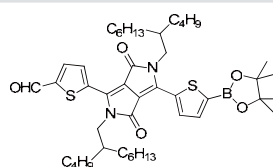
CAS# [1354631-87-0]
Formula $C_{38}H_{56}N_2O_2S_2$
FW 636.99

3,6-Bis(5-bromothiophen-2-yl)-2,5-bis(2-butyloctyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1329



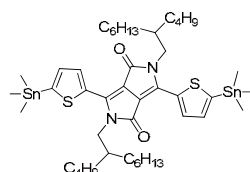
CAS# [1224709-68-5]
Formula $C_{38}H_{54}Br_2N_2O_2S_2$
FW 794.79

5-(2,5-bis(2-butyloctyl)-3,6-dioxo-4-(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrol-1-yl)thiophene-2-carbaldehyde
CAT# IN1376



CAS#
Formula $C_{45}H_{67}BN_2O_5S_2$
FW 790.96

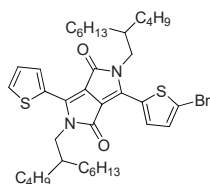
2,5-Bis(2-butyloctyl)-3,6-bis(5-(trimethylstannyl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1345



CAS#
Formula $C_{44}H_{72}N_2O_2S_2Sn_2$
FW 962.60

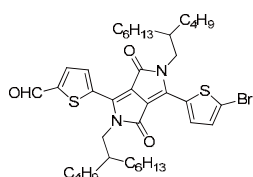
3-(5-Bromothiophen-2-yl)-2,5-bis(2-butyloctyl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1336


CAS#
Formula $C_{38}H_{55}BrN_2O_2S_2$
FW 715.89

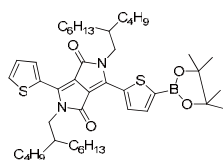
5-(4-(5-Bromothiophen-2-yl)-2,5-bis(2-butyloctyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrol-1-yl)thiophene-2-carbaldehyde

CAT# IN1396


CAS#
Formula $C_{39}H_{55}BrN_2O_3S_2$
FW 743.90

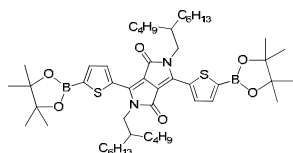
2,5-Bis(2-butyloctyl)-3-(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1374


CAS#
Formula $C_{44}H_{67}BN_2O_4S_2$
FW 762.95

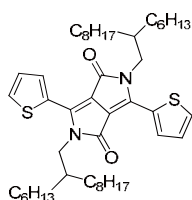
2,5-Bis(2-butyloctyl)-3,6-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1375


CAS#
Formula $C_{50}H_{78}B_2N_2O_6S_2$
FW 888.92

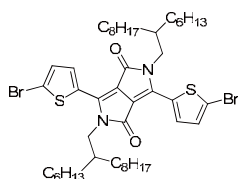
2,5-Bis(2-hexyldecyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1332


CAS# [1044598-80-2]
Formula $C_{46}H_{72}N_2O_2S_2$
FW 749.21

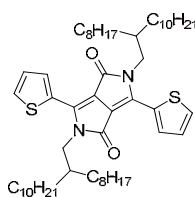
3,6-Bis(5-bromothiophen-2-yl)-2,5-bis(2-hexyldecyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1333


CAS# [1000623-98-2]
Formula $C_{46}H_{70}Br_2N_2O_2S_2$
FW 907.00

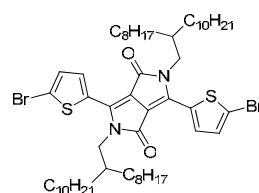
2,5-Bis(2-octyldecyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1730


CAS# [1267540-02-2]
Formula $C_{58}H_{88}N_2O_2S_2$
FW 861.42

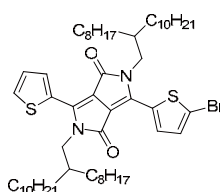
3,6-Bis(5-bromothiophen-2-yl)-2,5-bis(2-octyldecyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1330


CAS# [1260685-63-9]
Formula $C_{54}H_{86}Br_2N_2O_2S_2$
FW 1019.21

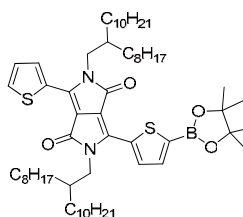
3-(5-Bromothiophen-2-yl)-2,5-bis(2-octyldecyl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1738


CAS#
Formula $C_{54}H_{87}BrN_2O_2S_2$
FW 940.31

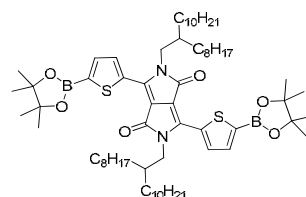
2,5-Bis(2-octyldecyl)-3-(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

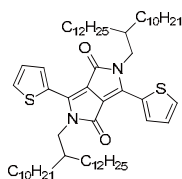
CAT# IN1731


CAS#
Formula $C_{60}H_{99}BN_2O_4S_2$
FW 987.38

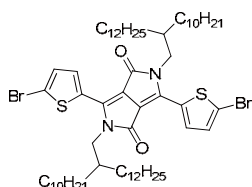
2,5-Bis(2-octyldecyl)-3,6-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

CAT# IN1337

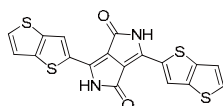

CAS#
Formula $C_{66}H_{110}B_2N_2O_6S_2$
FW 1113.34

2,5-Bis(2-decyltetradecyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1732


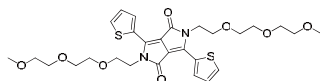
CAS# [1312588-15-0]
 Formula C₆₂H₁₀₄N₂O₂S₂
 FW 973.63

3,6-Bis(5-bromothiophen-2-yl)-2,5-bis(2-decyltetradecyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1331


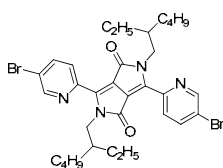
CAS# [1224430-28-7]
 Formula C₆₂H₁₀₂Br₂N₂O₂S₂
 FW 1131.42

3,6-Di(thieno[3,2-b]thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1324


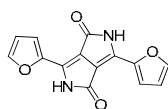
CAS# [1246679-11-7]
 Formula C₁₈H₈N₂O₂S₄
 FW 412.53

2,5-Bis(2-(2-(2-methoxyethoxy)ethoxy)ethyl)-3,6-di(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1305


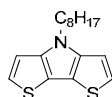
CAS# [1296131-04-8]
 Formula C₂₈H₃₈N₂O₈S₂
 FW 592.72

3,6-Bis(5-bromopyridin-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1307


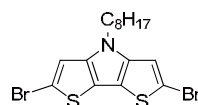
CAS# [1296131-04-8]
 Formula C₃₂H₄₀Br₂N₄O₂
 FW 672.49

3,6-Di(furan-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione
CAT# IN1800


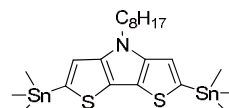
CAS# [88949-34-2]
 Formula C₁₄H₈N₂O₄
 FW 268.22

Monomer-DTP Series
N-octyl-dithieno[3,2-b:2,3-d']pyrrole
CAT# IN1040


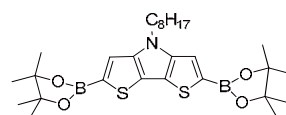
CAS# [141029-75-6]
 Formula C₁₆H₂₁NS₂
 FW 291.47

2,6-Dibromo-N-octyl-dithieno[3,2-b:2,3-d']pyrrole
CAT# IN1041


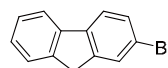
CAS# [1346688-54-7]
 Formula C₁₆H₁₉Br₂NS₂
 FW 449.27

2,6-Bis(trimethyltin)-N-octyl-dithieno[3,2-b:2,3-d']pyrrole
CAT# IN1341


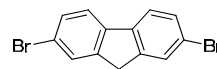
CAS# [1346688-54-7]
 Formula C₂₂H₃₇NS₂Sn₂
 FW 617.09

4-Octyl-2,6-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-4H-dithieno[3,2-b:2',3'-d']pyrrole
CAT# IN1342


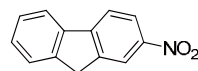
CAS# [1346688-54-7]
 Formula C₂₈H₄₃B₂NO₄S₂
 FW 543.40

Monomer-Fluorene Series
2-Bromo-9H-fluorene
CAT# IN1224


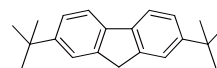
CAS# [1133-80-8]
 Formula C₁₃H₉Br
 FW 245.12

2,7-Dibromo-9H-fluorene
CAT# IN1225


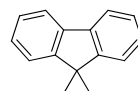
CAS# [16433-88-8]
 Formula C₁₃H₇Br₂
 FW 324.01

2-Nitro-9H-fluorene
CAT# IN1229


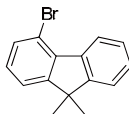
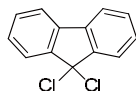
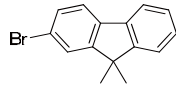
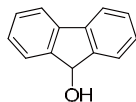
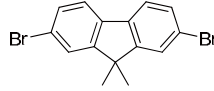
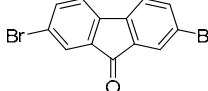
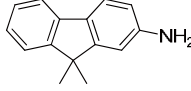
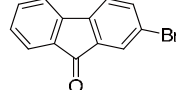
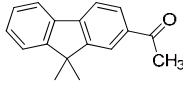
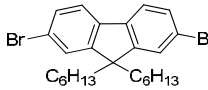
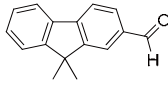
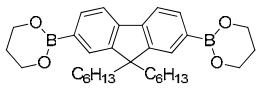
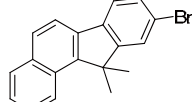
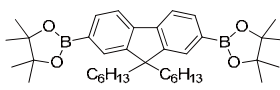
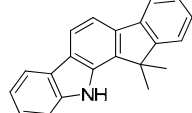
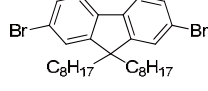
CAS# [607-57-8]
 Formula C₁₃H₉NO₂
 FW 211.22

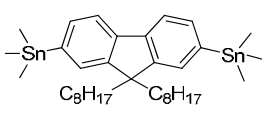
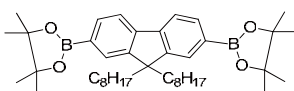
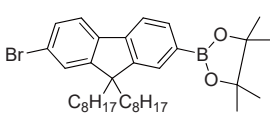
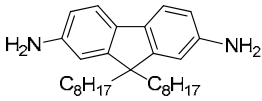
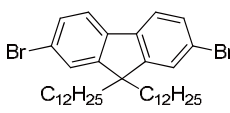
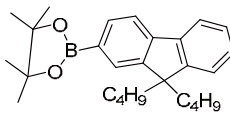
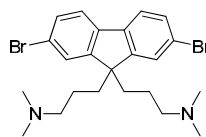
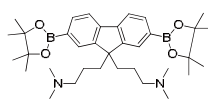
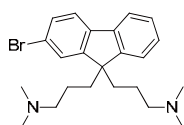
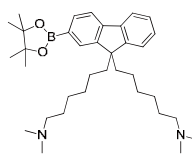
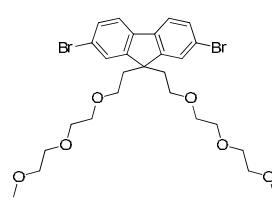
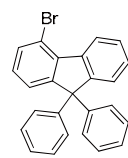
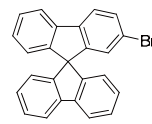
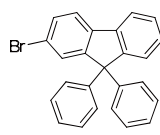
2,7-Di-tert-butyl-9H-fluorene
CAT# IN1222


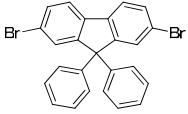
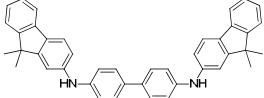
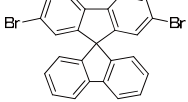
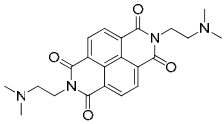
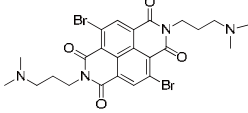
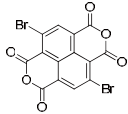
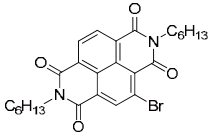
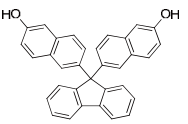
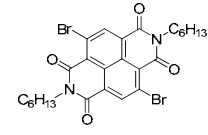
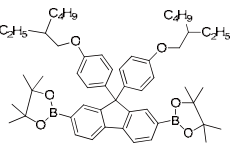
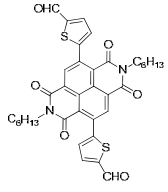
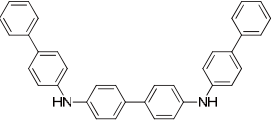
CAS# [58775-05-6]
 Formula C₂₁H₂₆
 FW 278.43

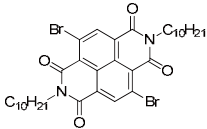
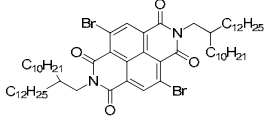
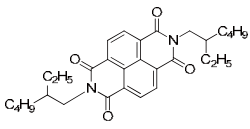
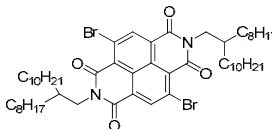
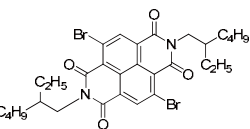
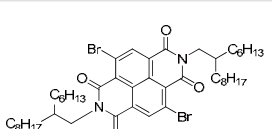
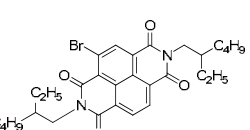
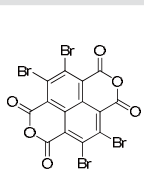
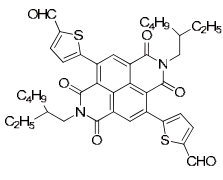
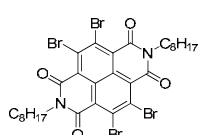
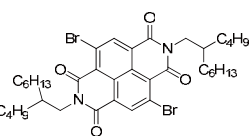
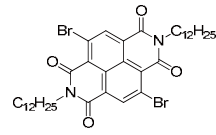
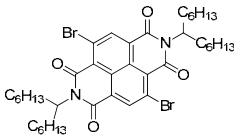
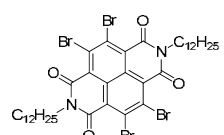
9,9-Dimethyl-9H-fluorene
CAT# IN1241


CAS# [4569-45-3]
 Formula C₁₅H₁₄
 FW 194.27

4-Bromo-9,9-dimethyl-9H-fluorene CAT# IN1218	 CAS# [942615-32-9] Formula C₁₅H₁₃Br FW 273.17	9,9-Dichloro-9H-fluorene CAT# IN1231	 CAS# [25023-01-2] Formula C₁₃H₉Cl₂ FW 235.11
2-Bromo-9,9-dimethyl-9H-fluorene CAT# IN1220	 CAS# [28320-31-2] Formula C₁₅H₁₃Br FW 273.17	9-Hydroxyfluorene CAT# IN1227	 CAS# [1689-64-1] Formula C₁₃H₁₀O FW 182.22
2,7-Dibromo-9,9-dimethyl-9H-fluorene CAT# IN1223	 CAS# [28320-32-3] Formula C₁₅H₁₂Br₂ FW 352.06	2,7-Dibromo-9H-fluorenone CAT# IN1226	 CAS# [14348-75-5] Formula C₁₃H₈Br₂O FW 337.99
9,9-Dimethyl-9H-fluorene-2-amine CAT# IN1230	 CAS# [108714-73-4] Formula C₁₅H₁₅N FW 209.29	2-Bromo-9H-fluorenone CAT# IN1228	 CAS# [3096-56-8] Formula C₁₃H₉BrO FW 259.10
1-(9,9-Dimethyl-9H-fluorene-2-yl)ethanone CAT# IN1290	 CAS# [236-31-1] Formula C₁₇H₁₆O FW 236.31	2,7-Dibromo-9,9-dihexyl-9H-fluorene CAT# IN1219	 CAS# [189367-54-2] Formula C₂₆H₃₂Br₂ FW 492.33
9,9-Dimethyl-9H-fluorene-2-carbaldehyde CAT# IN1291	 CAS# [222-28-0] Formula C₁₆H₁₄O FW 222.28	2,2'-(9,9-Dihexyl-9H-fluorene-2,7-diyl)bis(1,3,2-dioxaborinane) CAT# IN1126	 CAS# [250597-29-6] Formula C₃₁H₄₄B₂O₄ FW 502.30
9-Bromo-11,11-dimethyl-11H-benzo[a]fluorene CAT# IN1216	 CAS# [1198396-29-0] Formula C₁₉H₁₅Br FW 323.23	2,2'-(9,9-Dihexyl-9H-fluorene-2,7-diyl)bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolane) CAT# IN1123	 CAS# [254755-24-3] Formula C₃₇H₅₆B₂O₄ FW 584.46
12,12-Dimethyl-11,12-dihydroindeno[2,1-a]carbazole CAT# IN1295	 CAS# [1329054-41-2] Formula C₂₁H₁₇N FW 283.37	2,7-Dibromo-9,9-dioctyl-9H-fluorene CAT# IN1221	 CAS# [198964-46-4] Formula C₂₈H₄₀Br₂ FW 548.44

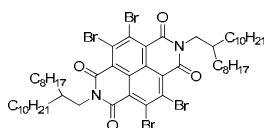
(9,9-Dioctyl-9H-fluorene-2,7-diyl)bis(trimethylstannane) CAT# IN1124	
	CAS# Formula $C_{35}H_{58}Sn_2$ FW 716.26
2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolane) CAT# IN1125	
	CAS# [196207-58-6] Formula $C_{41}H_{64}B_2O_4$ FW 642.57
2-(7-Bromo-9,9-dioctyl-9H-fluorene-2-yl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane CAT# IN1135	
	CAS# [620624-96-6] Formula $C_{35}H_{52}BB_2O_2$ FW 595.50
9,9-Dioctyl-9H-fluorene-2,7-diamine CAT# IN1012	
	CAS# [851042-10-9] Formula $C_{29}H_{44}N_2$ FW 420.67
2,7-Dibromo-9,9-didodecyl-9H-fluorene CAT# IN1232	
	CAS# [286438-45-7] Formula $C_{37}H_{56}Br_2$ FW 660.65
2-(9,9-Dibutyl-9H-fluorene-2-yl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane CAT# IN1785	
	CAS# Formula $C_{27}H_{37}BO_2$ FW 404.39
3,3'-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethylpropan-1-amine) CAT# IN1217	
	CAS# [673474-73-2] Formula $C_{23}H_{30}Br_2N_2$ FW 494.31
3,3'-(2,7-Bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-fluorene-9,9-diyl)bis(N,N-dimethylpropan-1-amine) CAT# IN1759	
	CAS# Formula $C_{35}H_{54}B_2N_2O_4$ FW 588.44
3,3'-(2-Bromo-9H-fluorene-9,9-diyl)bis(N,N-dimethylpropan-1-amine) CAT# IN1750	
	CAS# Formula $C_{23}H_{31}BrN_2$ FW 415.41
6,6'-(2-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)-9H-fluorene-9,9-diyl)bis(N,N-dimethylhexan-1-amine) CAT# IN1753	
	CAS# Formula $C_{38}H_{55}BrN_2O_2$ FW 546.63
2,7-Dibromo-9,9-bis(2-(2-methoxyethoxy)ethoxy)ethyl-9H-fluorene CAT# IN1757	
	CAS# [439942-93-5] Formula $C_{27}H_{38}Br_2O_6$ FW 616.38
4-Bromo-9,9-diphenyl-9H-fluorene CAT# IN1233	
	CAS# [713125-22-5] Formula $C_{25}H_{17}Br$ FW 397.31
2-Bromo-9,9'-spirobi[9H-fluorene] CAT# IN1234	
	CAS# [171408-76-7] Formula $C_{25}H_{15}Br$ FW 395.29
2-Bromo-9,9-diphenyl-9H-fluorene CAT# IN1235	
	CAS# [474918-32-6] Formula $C_{25}H_{17}Br$ FW 397.31

2,7-Dibromo-9,9-diphenyl-9H-fluorene CAT# IN1236  CAS# [186259-63-2] Formula C₂₅H₁₆Br₂ FW 476.20	N',N'-bis(9,9-dimethyl-9H-fluoren-2-yl)-[1,1'-biphenyl]-4,4'-diamine CAT# IN1269  CAS# Formula C₄₂H₃₆N₂ FW 568.75
2,7-Dibromo-9,9'-spirobifluorene CAT# IN1237  CAS# [171408-84-7] Formula C₂₅H₁₄Br₂ FW 474.19	Monomer-NDI Series 2,7-Bis(2-(dimethylamino)ethyl)benzo[Imn][3,8]phenanthroline-1,3,6,8 (2H,7H)-tetraone CAT# IN1071  CAS# [22291-04-9] Formula C₂₂H₂₄N₄O₄ FW 408.45
2,2'-Dibromo-9,9'-spirobi[9H-fluorene] CAT# IN1238  CAS# [67665-47-8] Formula C₂₅H₁₄Br₂ FW 474.19	4,9-Dibromo-2,7-bis(3-(dimethylamino)propyl)benzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1078  CAS# [22291-04-9] Formula C₂₄H₂₆Br₂N₄O₄ FW 594.30
2,2',7,7'-Tetrabromo-9,9'-spirobifluorene CAT# IN1239  CAS# [128055-74-3] Formula C₂₅H₁₂Br₄ FW 631.98	5,10-Dibromoisochromeno[6,5,4-def]isochromene-1,3,6,8(3aH,8aH)-tetraone CAT# IN1072  CAS# [83204-68-6] Formula C₁₄H₄Br₂O₆ FW 427.99
2,2',7,7'-Tetrakis(tributylstannyl)-9,9'-spirobi[fluorene] CAT# IN1299  CAS# Formula C₇₃H₁₂₀Sn₄ FW 1472.57	4-Bromo-2,7-dihexylbenzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1020  CAS# [1315605-26-5] Formula C₂₆H₂₆BrN₂O₄ FW 513.42
6,6'-(9H-Fluorene-9,9-diyl)dinaphthalen-2-ol CAT# IN1260  CAS# [934557-66-1] Formula C₃₃H₂₂O₂ FW 450.53	4,9-Dibromo-2,7-dihexylbenzo[Imn][3,8]phenanthroline-1,3,6,8-tetraone CAT# IN1021  CAS# [1239327-73-1] Formula C₂₆H₂₆Br₂N₂O₄ FW 592.32
2,7-Bis(4,4,5,5-tetramethyl-1,3,3-dioxaborolan-2-yl)-9,9-bis(4-(2-ethylhexyloxy)phenyl)fluorene CAT# IN1264  CAS# Formula C₅₃H₇₂B₂O₆ FW 826.76	5,5'-(2,7-Dihexyl-1,3,6,8-tetraoxo-1,2,3,6,7,8-hexahydrobenzo[Imn][3,8]phenanthroline-4,9-diyl)bis(thiophene-2-carbaldehyde) CAT# IN1550  CAS# Formula C₃₆H₃₄N₂O₆S₂ FW 654.79
N',N'-di([1,1'-biphenyl]-4-yl)-[1,1'-biphenyl]-4,4'-diamine CAT# IN1268  CAS# Formula C₃₆H₂₈N₂ FW 488.62	

4,9-Dibromo-2,7-didecylbenzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1261	 CAS# Formula $C_{34}H_{44}Br_2N_2O_4$ FW 704.53	4,9-Dibromo-2,7-bis(2-decyltetradecyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8-(2H,7H)-tetraone CAT# IN1022	 CAS# [1088205-04-2] Formula $C_{62}H_{100}Br_2N_2O_4$ FW 1097.28
2,7-Bis(2-ethylhexyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1164	 CAS# Formula $C_{30}H_{38}N_2O_4$ FW 490.63	4,9-Dibromo-2,7-bis(2-octyldodecyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1023	 CAS# [1100243-35-3] Formula $C_{54}H_{84}Br_2N_2O_4$ FW 985.06
4,9-Dibromo-2,7-bis(2-ethylhexyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1209	 CAS# [1088205-02-0] Formula $C_{30}H_{38}Br_2N_2O_4$ FW 648.43	4,9-Dibromo-2,7-bis(2-hexyldecyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1248	 CAS# [1459168-68-3] Formula $C_{48}H_{68}Br_2N_2O_4$ FW 872.85
4-Bromo-2,7-bis(2-ethylhexyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1210	 CAS# Formula $C_{30}H_{37}BrN_2O_4$ FW 569.53	4,5,9,10-Tetrabromoisochromeno[6,5,4-<i>def</i>]isochromene-1,3,6,8-tetraone CAT# IN1073	 CAS# [299962-88-2] Formula $C_{14}Br_4O_6$ FW 583.76
5,5'-(2,7-Bis(2-ethylhexyl)-1,3,6,8-tetraoxo-1,2,3,6,7,8-hexahydrobenzo[<i>lmn</i>][3,8]phenanthroline-4,9-diyl)bis(thiophene-2-carbaldehyde) CAT# IN1262	 CAS# Formula $C_{40}H_{42}N_2O_6S_2$ FW 710.90	4,5,9,10-Tetrabromo-2,7-diocetylbenzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8-tetraone CAT# IN1076	 CAS# [954374-43-7] Formula $C_{30}H_{34}Br_4N_2O_4$ FW 806.22
4,9-Dibromo-2,7-bis(2-butyloctyl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1265	 CAS# [1614253-96-1] Formula $C_{38}H_{52}Br_2N_2O_4$ FW 760.64	4,9-Dibromo-2,7-didodecylbenzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1274	 CAS# Formula $C_{38}H_{52}Br_2N_2O_4$ FW 760.64
4,9-Dibromo-2,7-di(tridecan-7-yl)benzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone CAT# IN1247	 CAS# Formula $C_{40}H_{58}Br_2N_2O_4$ FW 788.69	4,5,9,10-Tetrabromo-2,7-didodecylbenzo[<i>lmn</i>][3,8]phenanthroline-1,3,6,8-tetraone CAT# IN1074	 CAS# Formula $C_{38}H_{50}Br_4N_2O_4$ FW 918.43

4,5,9,10-Tetrabromo-2,7-bis(2-octyldodecyl)benzo[*lmn*][3,8]phenanthroline-1,3,6,8-tetraone

CAT# IN1075



CAS# [1219501-17-3]
 Formula $C_{54}H_{82}Br_4N_2O_4$
 FW 1142.86

Monomer-PDI Series
2,9-Dimethylanthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

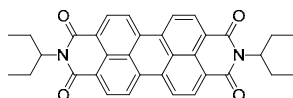
CAT# IN1214



CAS#
 Formula $C_{26}H_{14}N_2O_4$
 FW 418.40

***N,N'*-Bis(pentan-3-yl)-3,4,9,10-perylene diimide**

CAT# IN1215

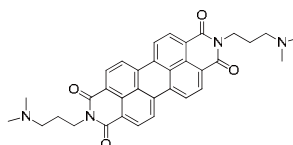


CAS# [110590-81-3]
 Formula $C_{34}H_{30}N_2O_4$
 FW 530.61

2,9-Bis(3-(dimethylamino)propyl)anthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

PDIN

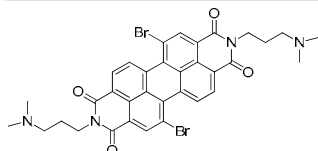
CAT# IN1279



CAS# [117901-97-0]
 Formula $C_{34}H_{32}N_4O_4$
 FW 560.64

5,12-Dibromo-2,9-bis(3-(dimethylamino)propyl)anthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

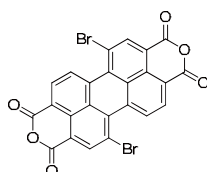
CAT# IN1289



CAS#
 Formula $C_{34}H_{30}Br_2N_4O_4$
 FW 718.43

1,7-Dibromoperylene-3,4,9,10-tetracarboxylic acid dianhydride

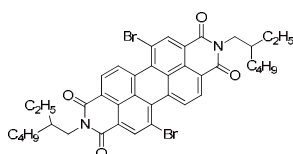
CAT# IN1211



CAS#
 Formula $C_{24}H_6Br_2O_6$
 FW 550.11

***N,N'*-Bis(2-ethylhexyloxy)-1,7-dibromo-3,4,9,10-perylene diimide**

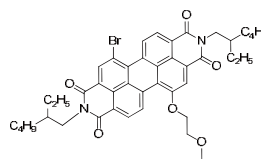
CAT# IN1212



CAS# [851786-15-7]
 Formula $C_{40}H_{40}Br_2N_2O_4$
 FW 772.56

1-Bromo-7-(2-methoxyethoxy)perylene diimide

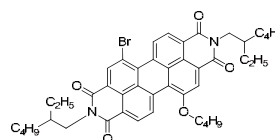
CAT# IN1280



CAS#
 Formula $C_{43}H_{47}BrN_2O_6$
 FW 767.75

1-Bromo-7-(*n*-butoxy)perylene diimide

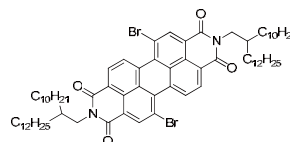
CAT# IN1281



CAS# [1356240-65-7]
 Formula $C_{44}H_{49}BrN_2O_5$
 FW 765.77

***N,N'*-Bis(2-decyl-tetradecyl)-1,7-dibromo-3,4,9,10-perylene diimide**

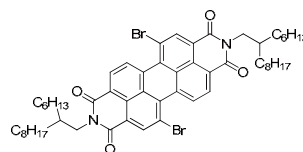
CAT# IN1213



CAS# [909019-78-9]
 Formula $C_{72}H_{104}Br_2N_2O_4$
 FW 1221.42

***N,N'*-Bis(hexyldecyl)-3,4,9,10-perylene diimide**

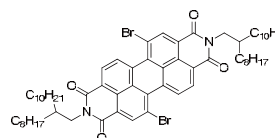
CAT# IN1285



CAS#
 Formula $C_{56}H_{72}Br_2N_2O_4$
 FW 996.99

5,12-Dibromo-2,9-bis(2-octyldodecyl)anthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

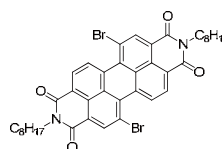
CAT# IN1283



CAS#
 Formula $C_{64}H_{88}Br_2N_2O_4$
 FW 1109.20

5,12-Dibromo-2,9-dioctylanthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

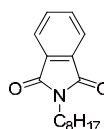
CAT# IN1284



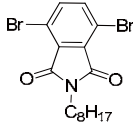
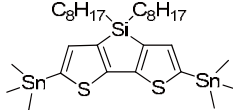
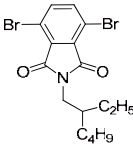
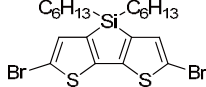
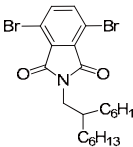
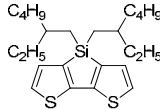
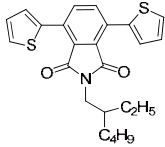
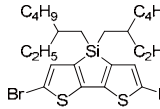
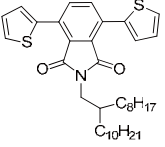
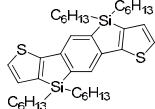
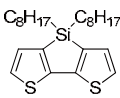
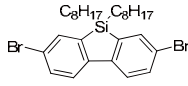
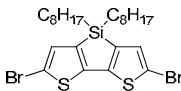
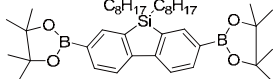
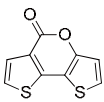
CAS#
 Formula $C_{40}H_{40}Br_2N_2O_4$
 FW 772.56

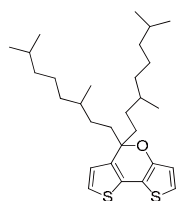
Monomer-Phthalimide Series
***N*-Octyl-phthalimide**

CAT# IN1028

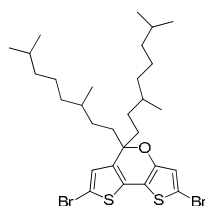


CAS# [59333-62-9]
 Formula $C_{16}H_{21}NO_2$
 FW 259.34

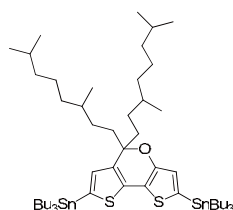
N-Octyl-3,6-dibromophthalimide  CAS# Formula $C_{16}H_{19}Br_2NO_2$ FW 417.14	4,4'-Bis(octyl)-5,5'-bis(trimethyltin)-dithieno[3,2-b:2',3'-d]silole  CAS# Formula $C_{30}H_{54}S_2SiSn_2$ FW 744.39
3,6-Dibromo-N-(2-ethylhexyl)phthalimide  CAS# Formula $C_{16}H_{19}Br_2NO_2$ FW 417.14	2,6-Dibromo-4,4-dihexyl-4H-silolo[3,2-b:4,5-b']dithiophene  CAS# [188690-66-6] Formula $C_{20}H_{28}Br_2S_2Si$ FW 520.46
4,7-Dibromo-2-(2-hexyloctyl)isoindoline-1,3-dione  CAS# Formula $C_{22}H_{31}Br_2NO_2$ FW 501.30	4,4'-Bis(2-ethyl-hexyl)-dithieno[3,2-b:2',3'-d]silole  CAS# [1207627-85-7] Formula $C_{24}H_{36}S_2Si$ FW 418.77
3,6-Bis(thieno-2-yl)-N-(2-ethylhexyl)phthalimide  CAS# Formula $C_{24}H_{25}NO_2S_2$ FW 423.59	4,4'-Bis(2-ethyl-hexyl)-5,5'-dibromo-dithieno[3,2-b:2',3'-d]silole  CAS# [1089687-05-7] Formula $C_{24}H_{36}Br_2S_2Si$ FW 576.57
3,6-Bis(thieno-2-yl)-N-(2-octyldodecyl)phthalimide  CAS# Formula $C_{36}H_{49}NO_2S_2$ FW 591.91	Benzo[1,2-b:4,5-b']bis(4,4'-dioctyl-4H-silolo[3,2-b]thiophene)  CAS# Formula $C_{38}H_{58}S_2Si_2$ FW 635.18
Monomer-Silole Series 4,4'-Bis(octyl)-dithieno[3,2-b:2',3'-d]silole  CAS# [1160106-12-6] Formula $C_{24}H_{38}S_2Si$ FW 418.77	3,7-Dibromo-5,5-dioctyl-5H-dibenzo[b,d]silole  CAS# [891182-24-4] Formula $C_{28}H_{40}Br_2Si$ FW 564.51
4,4'-Bis(octyl)-5,5'-dibromo-dithieno[3,2-b:2',3'-d]silole  CAS# Formula $C_{24}H_{36}Br_2S_2Si$ FW 576.57	5,5-Dioctyl-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-5H-dibenzo[b,d]silole  CAS# [958293-23-7] Formula $C_{40}H_{64}B_2O_4Si$ FW 658.64
	Monomer-DTP Series 5H-dithieno[3,2-b:2',3'-d]pyran-5-one  CAS# Formula $C_9H_4O_2S_2$ FW 208.26

5,5-Bis(3,7-dimethyloctyl)-5H-dithieno[3,2-b:2',3'-d]pyran
CAT# IN1508


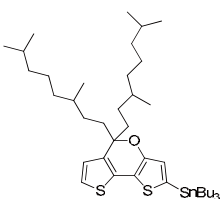
CAS# [1295502-20-3]
 Formula $C_{29}H_{46}OS_2$
 FW 474.80

2,7-Dibromo-5,5-bis(3,7-dimethyloctyl)-5H-dithieno[3,2-b:2',3'-d]pyran
CAT# IN1509


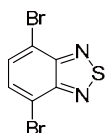
CAS#
 Formula $C_{29}H_{44}Br_2OS_2$
 FW 632.60

(5,5-Bis(3,7-dimethyloctyl)-5H-dithieno[3,2-b:2',3'-d]pyran-2,7-diyl)bis(tributylstannane)
CAT# IN1510


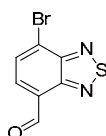
CAS# [1295502-52-1]
 Formula $C_{63}H_{98}OS_2Sn_2$
 FW 1052.89

(5,5-Bis(3,7-dimethyloctyl)-5H-dithieno[3,2-b:2',3'-d]pyran-2,7-diyl)bis(tributylstannane)
CAT# IN1511


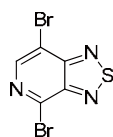
CAS#
 Formula $C_{41}H_{72}OS_2Sn$
 FW 763.85

Monomer-Thiadiazole Series
4,7-Dibromobenzo[c][1,2,5]thiadiazole
CAT# IN1006


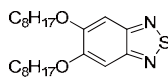
CAS# [15155-41-6]
 Formula $C_6H_2Br_2N_2S$
 FW 293.97

7-Bromobenzo[c][1,2,5]thiadiazole-4-carbaldehyde
CAT# IN1446


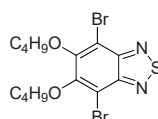
CAS# [1071224-34-4]
 Formula $C_7H_3BrN_2OS$
 FW 243.08

4,7-Dibromo-[1,2,5]thiadiazolo[3,4-c]pyridine
CAT# IN1202


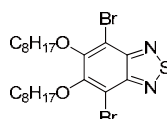
CAS# [333432-27-2]
 Formula $C_5HBr_2N_3S$
 FW 294.95

5,6-Bis(octyloxy)benzo-2,1,3-thiadiazole
CAT# IN1037


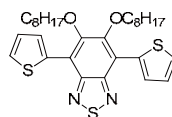
CAS# [1254353-37-1]
 Formula $C_{22}H_{36}N_2O_2S$
 FW 392.60

4,7-Dibromo-5,6-dibutoxybenzo[c][1,2,5]thiadiazole
CAT# IN1701


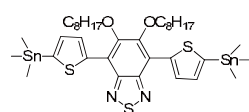
CAS#
 Formula $C_{14}H_{18}Br_2N_2O_2S$
 FW 438.18

4,7-Dibromo-5,6-bis(octyloxy)benzo-2,1,3-thiadiazole
CAT# IN1038


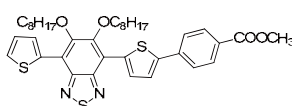
CAS# [1192352-08-1]
 Formula $C_{22}H_{34}Br_2N_2O_2S$
 FW 550.39

5,6-Bis(octyloxy)-4,7-di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1039


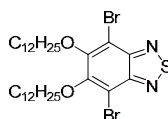
CAS#
 Formula $C_{30}H_{40}N_2O_2S_3$
 FW 556.85

5,6-Bis(octyloxy)-4,7-bis(5-(trimethylstannyl)thiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1430


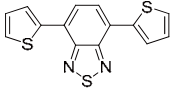
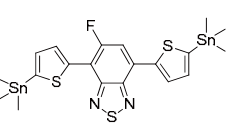
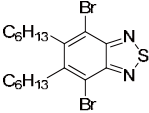
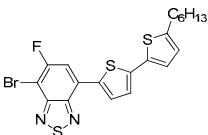
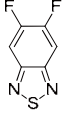
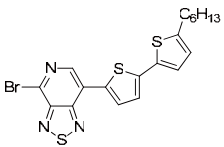
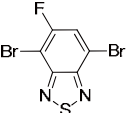
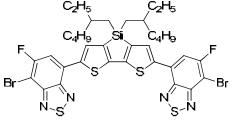
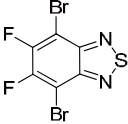
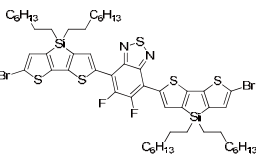
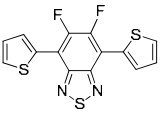
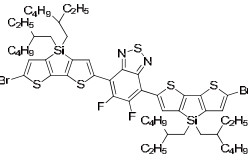
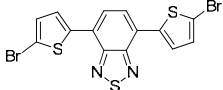
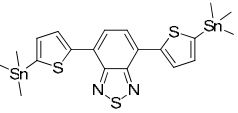
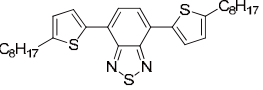
CAS#
 Formula $C_{36}H_{56}N_2O_2S_3Sn_2$
 FW 882.46

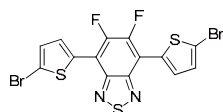
Methyl 4-(5-(5,6-bis(octyloxy)-7-(thiophen-2-yl)benzo[c][1,2,5]thiadiazol-4-yl)thiophen-2-yl)benzoate
CAT# IN1431


CAS#
 Formula $C_{38}H_{46}N_2O_4S_3$
 FW 690.98

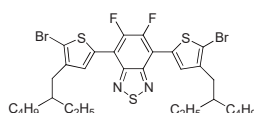
4,7-Dibromo-5,6-bis(dodecyloxy)benzo[c][1,2,5]thiadiazole
CAT# IN1198


CAS#
 Formula $C_{30}H_{50}Br_2N_2O_2S$
 FW 662.60

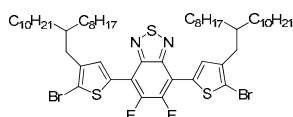
4,7-Di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole CAT# IN1079  CAS# [165190-76-1] Formula $C_{14}H_8N_2S_3$ FW 300.42	5-Fluoro-4,7-bis(5-(trimethylstannyl)thiophen-2-yl)benzo[c][1,2,5]thiadiazole CAT# IN1600  CAS# Formula $C_{20}H_{23}FN_2S_3Sn_2$ FW 644.02
4,7-Dibromo-5,6-dihexylbenzo[c][1,2,5]thiadiazole CAT# IN1680  CAS# Formula $C_{18}H_{26}Br_2N_2S$ FW 462.29	4-Bromo-5-fluoro-7-(5'-hexyl-[2,2'-bithiophen]-5-yl)benzo[c][1,2,5]thiadiazole CAT# IN1560  CAS# [1402460-83-6] Formula $C_{20}H_{18}BrFN_2S_3$ FW 481.47
5,6-Difluorobenzo[c][1,2,5]thiadiazole CAT# IN1308  CAS# [1293389-28-2] Formula $C_6H_2F_2N_2S$ FW 172.16	4-Bromo-7-(5'-hexyl-[2,2'-bithiophen]-5-yl)-[1,2,5]thiadiazolo[3,4-c]pyridine CAT# IN1561  CAS# Formula $C_{19}H_{18}BrN_3S_3$ FW 464.47
4,7-Dibromo-5-fluorobenzo[c][1,2,5]thiadiazole CAT# IN1092  CAS# [1347736-74-6] Formula $C_6HBr_2FN_2S$ FW 311.96	7,7'-(4,4-Bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-b']dithiophene-2,6-diyl)b is(4-bromo-5-fluorobenzo[c][1,2,5]thiadiazole) CAT# IN1562  CAS# Formula $C_{38}H_{38}Br_2F_2N_4S_4Si$ FW 880.86
5,6-Difluoro-4,7-dibromobenzo[c][1,2,5]thiadiazole CAT# IN1098  CAS# [1295502-53-2] Formula $C_6Br_2F_2N_2S$ FW 329.95	4,7-Bis(6-bromo-4,4-dioctyl-4H-silolo[3,2-b:4,5-b']dithiophene-2-yl)-5,6-difluorobenzo[c][1,2,5]thiadiazole CAT# IN1567  CAS# Formula $C_{54}H_{72}Br_2F_2N_2S_5Si_2$ FW 1163.46
5,6-Difluoro-4,7-di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole CAT# IN1097  CAS# Formula $C_{14}H_6F_2N_2S_3$ FW 336.40	4,7-Bis(6-bromo-4,4-bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-b']dithiophene-2-yl)-5,6-difluorobenzo[c][1,2,5]thiadiazole CAT# IN1569  CAS# [1432791-00-8] Formula $C_{54}H_{72}Br_2F_2N_2S_5Si_2$ FW 1163.46
4,7-Bis(2-bromo-5-thienyl)-2,1,3-benzothiadiazole CAT# IN1069  CAS# [288071-87-4] Formula $C_{14}H_6Br_2N_2S_3$ FW 458.21	4,7-Bis(5-(trimethylstannyl)thiophen-2-yl)benzo[c][1,2,5]thiadiazole CAT# IN1195  CAS# [1025451-57-3] Formula $C_{20}H_{24}N_2S_3Sn_2$ FW 626.03
	4,7-Bis(5-octylthiophen-2-yl)benzo[c][1,2,5]thiadiazole CAT# IN1196  CAS# [1171974-28-9] Formula $C_{30}H_{40}N_2S_3$ FW 524.85

4,7-Bis(5-bromothiophen-2-yl)-5,6-difluorobenzo[c][1,2,5] thiadiazole
CAT# IN1197


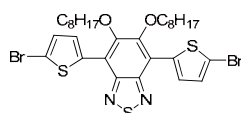
CAS# [1304773-89-4]
 Formula $C_{14}H_4Br_2F_2N_2S_3$
 FW 494.19

4,7-Bis(5-bromo-4-(2-ethylhexyl)thiophen-2-yl)-5,6-difluorobenzo[c][1,2,5]thiadiazole
CAT# IN1565


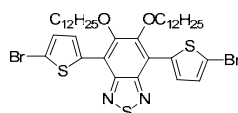
CAS# [1293389-32-8]
 Formula $C_{30}H_{36}Br_2F_2N_2S_3$
 FW 718.62

4,7-Bis(5-bromo-4-(2-octyldodecyl)thiophen-2-yl)-5,6-difluorobenzo[c][1,2,5]thiadiazole
CAT# IN1566


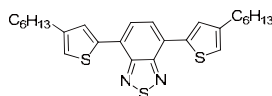
CAS# [1293389-32-8]
 Formula $C_{54}H_{84}Br_2F_2N_2S_3$
 FW 1055.26

4,7-Bis(5-bromothiophen-2-yl)5,6-bis(octyloxy)benzo-2,1,3-thiadiazole
CAT# IN1429


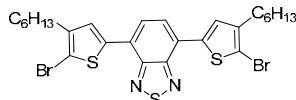
CAS# [1192352-10-5]
 Formula $C_{30}H_{38}Br_2F_2N_2O_2S_3$
 FW 714.64

4,7-Bis(5-bromothiophen-2-yl)-5,6-bis(dodecyloxy)benzo[c][1,2,5] thiadiazole
CAT# IN1199


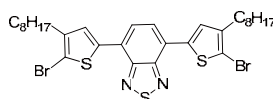
CAS# [1334686-71-3]
 Formula $C_{38}H_{54}Br_2N_2O_2S_3$
 FW 826.85

4,7-Bis(4-hexylthiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1249


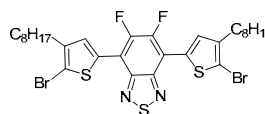
CAS# [761416-46-0]
 Formula $C_{26}H_{32}N_2S_3$
 FW 468.74

4,7-Bis(5-bromo-4-hexylthiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1244


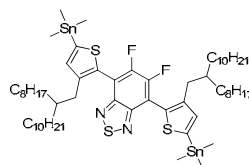
CAS# [444579-39-9]
 Formula $C_{26}H_{30}Br_2N_2S_3$
 FW 626.53

4,7-Bis(5-bromo-4-octylthiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1245


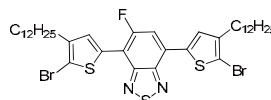
CAS# [457931-23-6]
 Formula $C_{30}H_{38}Br_2N_2S_3$
 FW 682.64

4,7-Bis(5-bromo-4-octylthiophen-2-yl)-5,6-difluorobenzo[c][1,2,5] thiadiazole
CAT# IN1246


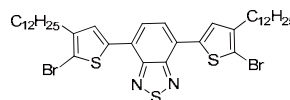
CAS# [1283598-36-6]
 Formula $C_{30}H_{36}Br_2F_2N_2S_3$
 FW 718.62

5,6-Difluoro-4,7-bis(3-(2-octyldodecyl)-5-(trimethylstannyl)thiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1598


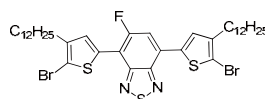
CAS# [1283598-36-6]
 Formula $C_{60}H_{102}F_2N_2S_3Sn_2$
 FW 1223.08

4,7-Bis(5-bromo-4-dodecylthiophen-2-yl)-5-fluorobenzo[c][1,2,5]thiadiazole
CAT# IN1605


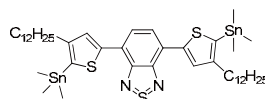
CAS# [1283598-36-6]
 Formula $C_{38}H_{53}Br_2FN_2S_3$
 FW 812.84

4,7-Bis(5-bromo-4-dodecylthiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1243


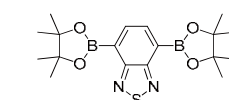
CAS# [1179993-72-6]
 Formula $C_{38}H_{54}Br_2N_2S_3$
 FW 794.85

4,7-Bis(5-bromo-4-dodecylthiophen-2-yl)-5-fluorobenzo[c][1,2,5]thiadiazole
CAT# IN1605


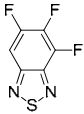
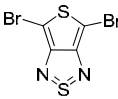
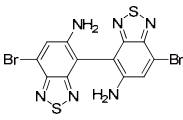
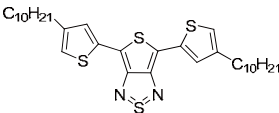
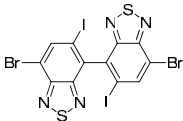
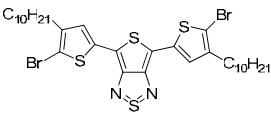
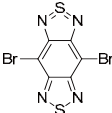
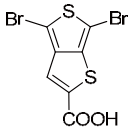
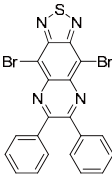
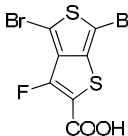
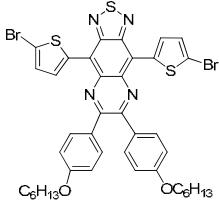
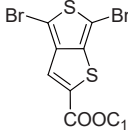
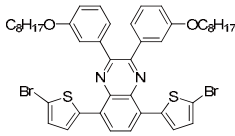
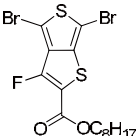
CAS# [1283598-36-6]
 Formula $C_{38}H_{53}Br_2FN_2S_3$
 FW 812.84

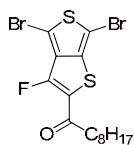
4,7-Bis(4-dodecyl-5-(trimethylstannyl)thiophen-2-yl)benzo[c][1,2,5]thiadiazole
CAT# IN1568


CAS# [1283598-36-6]
 Formula $C_{44}H_{72}N_2S_3Sn_2$
 FW 962.67

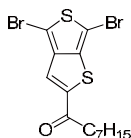
4,7-Bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2,1,3-benzothiadiazole
CAT# IN1348


CAS# [934365-16-9]
 Formula $C_{18}H_{26}B_2N_2O_4S$
 FW 388.10

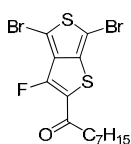
4,5,6-Trifluorobenzo[c][1,2,5]thiadiazole CAT# IN1570  CAS# [1245924-75-7] Formula C₆HF₃N₂S FW 190.15	4,6-Dibromo-thieno[3,4-c][1,2,5]thiadiazole(s) CAT# IN1535  CAS# [238756-91-7] Formula C₄Br₂N₂S₂ FW 299.99
7,7'-Dibromo-4,4'-bibenzo[c][1,2,5]thiadiazole-5,5'-diamine CAT# IN1349  CAS# Formula C₁₂H₆Br₂N₆S₂ FW 458.15	4,6-Bis(4-decylthiophen-2-yl)-thieno[3,4-c][1,2,5]thiadiazole(s) CAT# IN1538  CAS# Formula C₃₂H₄₆N₂S₄ FW 586.98
7,7'-Dibromo-5,5'-diiodo-4,4'-bibenzo[c][1,2,5]thiadiazole CAT# IN1350  CAS# Formula C₁₂H₂Br₂I₂N₄S₂ FW 679.92	4,6-Bis(5-bromo-4-decylthiophen-2-yl)-thieno[3,4-c][1,2,5]thiadiazole (s) CAT# IN1539  CAS# Formula C₃₂H₄₄Br₂N₂S₄ FW 744.77
4,8-Dibromo-benzo[1,2-c;4,5-c']bis[1,2,5]thiadiazole CAT# IN1201  CAS# [165617-59-4] Formula C₆Br₂N₄S₂ FW 352.03	Monomer-Thiophene Series 4,6-Dibromo-thieno[3,4-b]thiophene-2-carboxylic acid CAT# IN1014  CAS# [1024594-86-2] Formula C₇H₂Br₂O₂S₂ FW 342.03
4,9-Dibromo-6,7-diphenyl-[1,2,5]thiadiazolo[3,4-g]quinoxaline CAT# IN1203  CAS# [1262727-09-2] Formula C₂₀H₁₀Br₂N₄S FW 498.19	4,6-Dibromo-3-fluorothieno[3,4-b]thiophene-2-carboxylic acid CAT# IN1019  CAS# [1628427-36-0] Formula C₇HBr₂FO₂S₂ FW 360.02
4,9-Bis-(5-bromo-thiophen-2-yl)-6,7-bis-(4-hexyloxy-phenyl)-2-thia-1,3,5,8-tetraaza-cyclopenta[b]naphthalene CAT# IN1620  CAS# Formula C₄₀H₃₈Br₂N₄O₂S₃ FW 862.76	Dodecyl 4,6-dibromothieno[3,4-b]thiophene-2-carboxylate CAT# IN1007  CAS# [1098102-93-2] Formula C₁₉H₂₆Br₂O₂S₂ FW 510.3
5,8-Bis(5-bromothiophen-2-yl)-2,3-bis(3-(octyloxy)phenyl)quinoxaline CAT# IN1625  CAS# [1100761-34-9] Formula C₄₄H₄₈Br₂N₄O₂S₂ FW 860.80	Octyl 4,6-dibromo-3-fluorothieno[3,4-b]thiophene-2-carboxylate CAT# IN1017  CAS# [1160823-76-6] Formula C₁₅H₁₇Br₂FO₂S₂ FW 472.23

1-(4,6-Dibromo-3-fluorothieno[3,4-b]thiophen-2-yl)nonan-1-one
CAT# IN1052


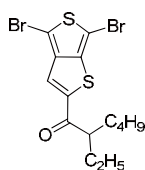
CAS# [1309764-86-0]
 Formula $C_{15}H_{17}Br_2FOS_2$
 FW 456.23

1-(4,6-Dibromothieno[3,4-b]thiophen-2-yl)octan-1-one
CAT# IN1061


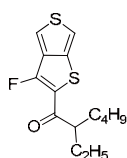
CAS# [1327334-59-7]
 Formula $C_{14}H_{16}Br_2OS_2$
 FW 424.21

1-(4,6-Dibromo-3-fluorothieno[3,4-b]thiophen-2-yl)octan-1-one
CAT# IN1062


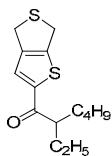
CAS# [1202249-72-6]
 Formula $C_{14}H_{15}Br_2FOS_2$
 FW 442.20

1-(4,6-Dibromothieno[3,4-b]thiophen-2-yl)-2-ethylhexan-1-one
CAT# IN1091


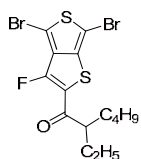
CAS# [1194605-76-9]
 Formula $C_{14}H_{16}Br_2OS_2$
 FW 424.21

2-Ethyl-1-(3-fluorothieno[3,4-b]thiophen-2-yl)hexan-1-one
CAT# IN1690


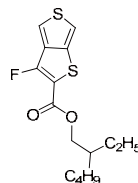
CAS#
 Formula $C_{14}H_{17}FOS_2$
 FW 284.41

1-(4,6-Dihydrothieno[3,4-b]thiophen-2-yl)-2-ethylhexan-1-one
CAT# IN1054


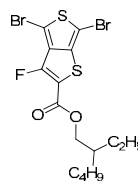
CAS# [1194605-72-5]
 Formula $C_{14}H_{20}OS_2$
 FW 268.44

1-(4,6-Dibromo-3-fluorothieno[3,4-b]thiophen-2-yl)-2-ethylhexan-1-one
CAT# IN1090


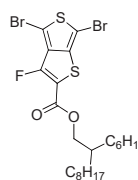
CAS# [1352743-83-9]
 Formula $C_{14}H_{15}Br_2FOS_2$
 FW 442.20

2-Ethylhexyl 3-fluorothieno[3,4-b]thiophene-2-carboxylate
CAT# IN1093


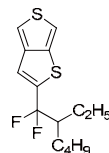
CAS#
 Formula $C_{15}H_{19}FO_2S_2$
 FW 314.44

2-Ethylhexyl 4,6-dibromo-3-fluorothieno[3,4-b]thiophene-2-carboxylate
CAT# IN1094


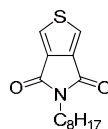
CAS# [1237479-38-7]
 Formula $C_{15}H_{17}Br_2FO_2S_2$
 FW 472.23

2-Hexyldecyl 4,6-dibromo-3-fluorothieno[3,4-b]thiophene-2-carboxylate
CAT# IN1194


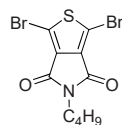
CAS# [1446476-90-9]
 Formula $C_{23}H_{33}Br_2FO_2S_2$
 FW 584.44

2-(2-Ethyl-1,1-difluorohexyl)thieno[3,4-b]thiophene
CAT# IN1063


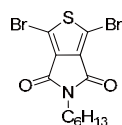
CAS#
 Formula $C_{14}H_{18}F_2S_2$
 FW 288.42

5-Octyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione
CAT# IN1613


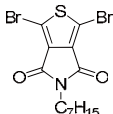
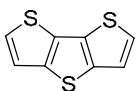
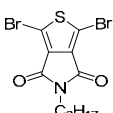
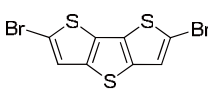
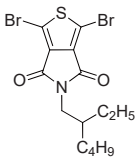
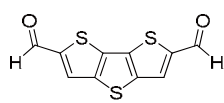
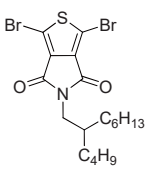
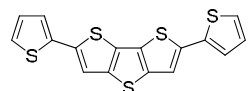
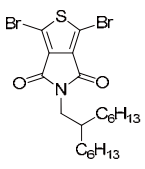
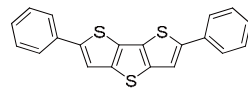
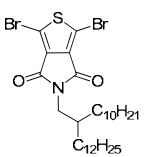
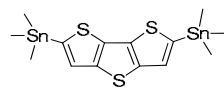
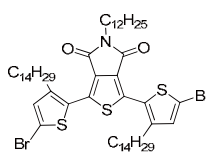
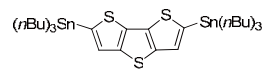
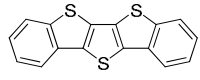
CAS# [773881-43-9]
 Formula $C_{14}H_{19}NO_2S$
 FW 265.37

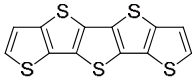
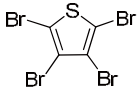
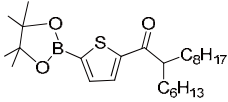
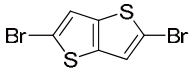
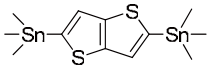
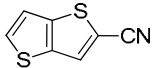
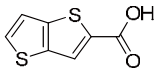
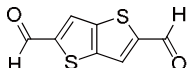
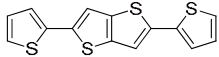
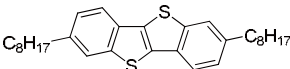
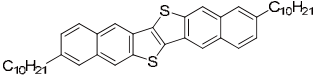
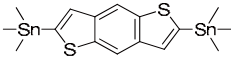
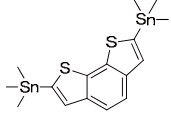
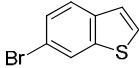
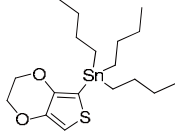
1,3-Dibromo-5-butyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione
CAT# IN1611


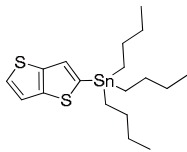
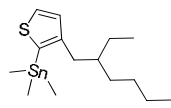
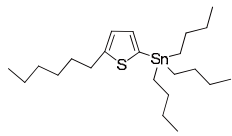
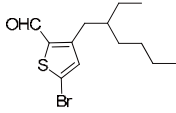
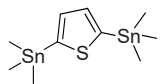
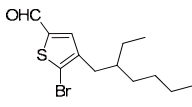
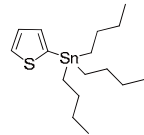
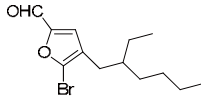
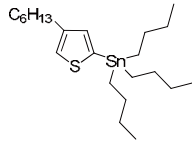
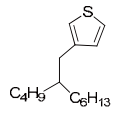
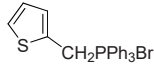
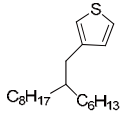
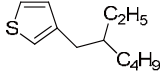
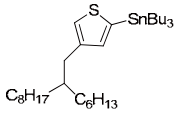
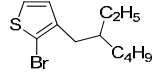
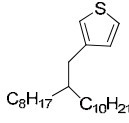
CAS# [190723-14-9]
 Formula $C_{10}H_9Br_2NO_2S$
 FW 367.06

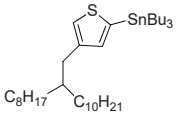
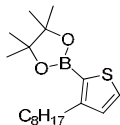
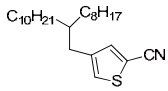
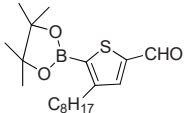
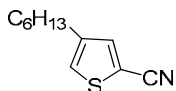
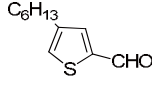
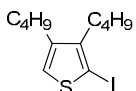
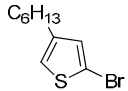
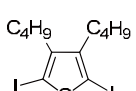
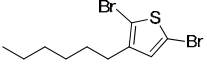
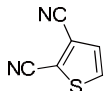
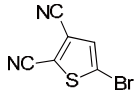
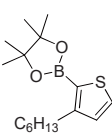
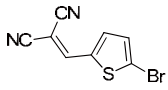
1,3-Dibromo-5-hexyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione
CAT# IN1616


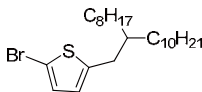
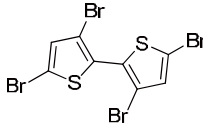
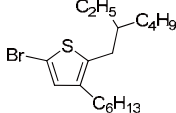
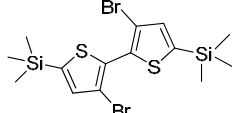
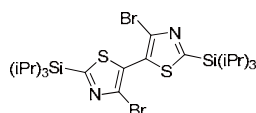
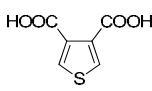
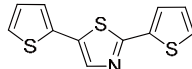
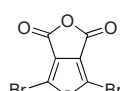
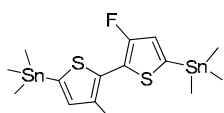
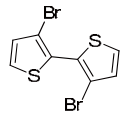
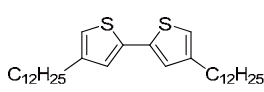
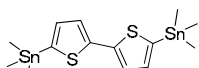
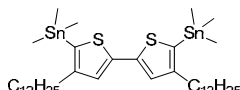
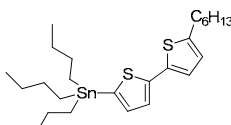
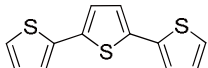
CAS# [566939-56-8]
 Formula $C_{15}H_{17}Br_2FO_2S_2$
 FW 472.23

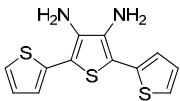
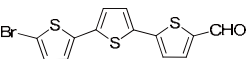
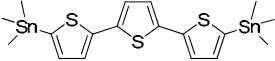
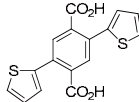
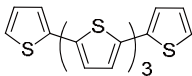
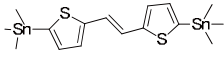
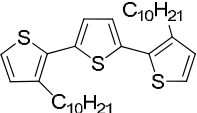
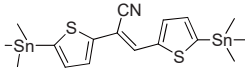
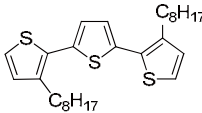
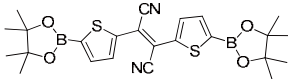
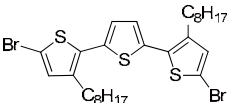
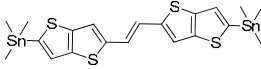
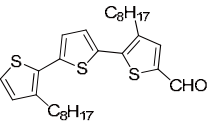
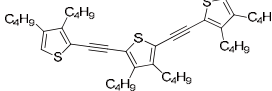
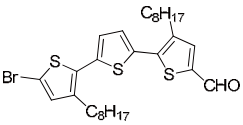
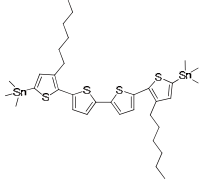
1,3-Dibromo-5-heptyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1615	 CAS# Formula FW $C_{13}H_{15}Br_2NO_2S$ 409.14	Dithieno[3,2-b:2',3'-d']thiophene CAT# OC1018	 CAS# Formula FW [3593-75-7] $C_8H_4S_3$ 196.31
1,3-Dibromo-5-octyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1053	 CAS# Formula FW [566939-58-0] $C_{14}H_{17}Br_2NO_2S$ 423.16	2,6-Dibromo-dithieno[3,2-b:2',3'-d']thiophene CAT# IN1068	 CAS# Formula FW [67061-69-2] $C_8H_2Br_2S_3$ 354.10
1,3-Dibromo-5-(2-ethylhexyl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1095	 CAS# Formula FW [1231160-83-0] $C_{14}H_{17}Br_2NO_2S$ 423.16	Dithieno[3,2-b:2',3'-d']thiophene-2,6-dicarbaldehyde CAT# IN1117	 CAS# Formula FW [67061-73-8] $C_{10}H_4O_2S_3$ 252.33
1,3-Dibromo-5-(2-butyloctyl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1614	 CAS# Formula FW [1262241-50-8] $C_{18}H_{25}Br_2NO_2S$ 479.27	2,6-Dithiophen-2-yl-dithieno[3,2-b:2',3'-d']thiophene CAT# IN1115	 CAS# Formula FW [910788-24-8] $C_{16}H_6S_5$ 360.56
1,3-Dibromo-5-(2-hexyloctyl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1617	 CAS# Formula FW $C_{20}H_{29}Br_2NO_2S$ 507.32	2,6-Diphenyldithieno[3,2-b:2',3'-d']thiophene CAT# IN1116	 CAS# Formula FW [881838-94-4] $C_{20}H_{12}S_3$ 348.50
1,3-Dibromo-5-(2-decyltetradecyl)-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1096	 CAS# Formula FW $C_{30}H_{49}Br_2NO_2S$ 647.59	2,6-Bis(trimethyltin)-dithieno[3,2-b:2',3'-d']thiophene CAT# IN1118	 CAS# Formula FW [502764-57-0] $C_{14}H_{20}S_3Sn_2$ 521.92
1,3-Bis(5-bromo-3-tetradecylthiophen-2-yl)-5-dodecyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione CAT# IN1208	 CAS# Formula FW $C_{54}H_{85}Br_2NO_2S_3$ 1036.26	2,6-Bis(tributylstannyl)dithieno[3,2-b:2',3'-d']thiophene CAT# IN1586	 CAS# Formula FW $C_{32}H_{56}S_3Sn_2$ 774.40
		Dibenzo[d,d']thieno[3,2-b;4,5-b']dithiophene CAT# IN1119	 CAS# Formula FW [241-13-4] $C_{16}H_8S_3$ 296.43

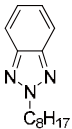
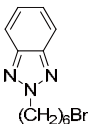
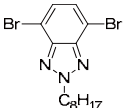
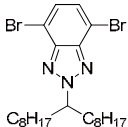
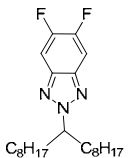
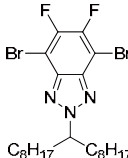
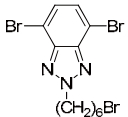
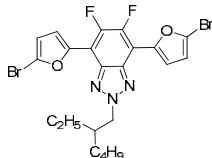
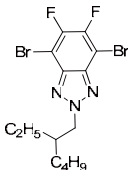
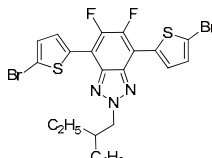
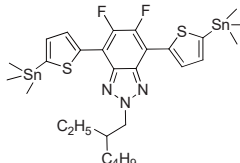
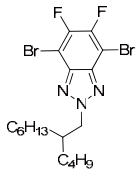
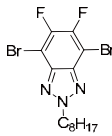
Thieno[2',3':4,5]thieno[3,2-b]thieno[2',3':4,5]thieno[2,3-d]thiophene CAT# IN1120			CAS# [124796-79-8] Formula C ₁₂ H ₄ S ₅ FW 308.49
Tetrabromothiophene CAT# IN1070			CAS# [3958-03-0] Formula C ₄ Br ₄ S FW 399.72
2-Hexyl-1-(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)decan-1-one CAT# IN1358			CAS# Formula C ₂₆ H ₄₅ BO ₃ S FW 448.51
Thieno[3,2-b]thiophene CAT# IN1102			CAS# [251-41-2] Formula C ₆ H ₄ S ₂ FW 140.23
2,5-Dibromothiopheno[3,2-b]thiophene CAT# IN1103			CAS# [25121-87-3] Formula C ₆ H ₂ Br ₂ S ₂ FW 298.02
3,6-Dibromothiopheno[3,2-b]thiophene CAT# IN1100			CAS# [392662-65-6] Formula C ₆ H ₂ Br ₂ S ₂ FW 298.02
2,5-Bis(trimethylstannyl)thieno[3,2-b]thiophene CAT# IN1104			CAS# [469912-82-1] Formula C ₁₂ H ₂₀ Sn ₂ S ₂ FW 465.84
Thieno[3,2-b]thiophene-2-carbonitrile CAT# IN1087			CAS# [40985-58-8] Formula C ₇ H ₃ NS ₂ FW 165.24
Thieno[3,2-b]thiophene-2-carboxylic acid CAT# IN1108			CAS# [1723-27-9] Formula C ₇ H ₄ O ₂ S ₂ FW 184.24
Thieno[3,2-b]thiophene-2,5-dicarbaldehyde CAT# IN1109			CAS# [37882-75-0] Formula C ₈ H ₄ O ₂ S ₂ FW 196.25
2,5-Di(thiophen-2-yl)thieno[3,2-b]thiophene CAT# IN1105			CAS# [21210-90-2] Formula C ₁₄ H ₈ S ₄ FW 304.47
2,7-Dioctyl[1]benzothieno[3,2-b][1]benzothiophene C8-BTBT CAT# IN1106			CAS# [583050-70-8] Formula C ₃₀ H ₄₀ S ₂ FW 464.77
2,9-Didecyldinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene CAT# IN1107			CAS# Formula C ₄₂ H ₅₂ S ₂ FW 620.99
2,6-Bis(trimethylstannyl)benzo[1,2-b:4,5-b']dithiophene CAT# IN1101			CAS# Formula C ₁₆ H ₂₂ S ₂ Sn ₂ FW 515.90
2,7-Bis(trimethylstannyl)benzo[1,2-b:6,5-b']dithiophene CAT# IN1099			CAS# Formula C ₁₆ H ₂₂ S ₂ Sn ₂ FW 515.90
6-Bromobenzo[b]thiophene CAT# IN1018			CAS# [17347-32-9] Formula C ₈ H ₅ BrS FW 213.09
Tributyl(2,3-dihydrothieno[3,4-b][1,4]dioxin-5-yl)stannane CAT# IN1110			CAS# [175922-79-9] Formula C ₁₈ H ₃₂ O ₂ SSn FW 431.22

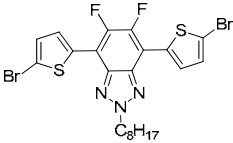
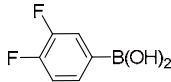
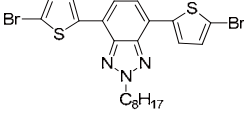
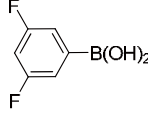
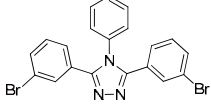
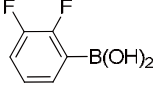
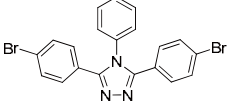
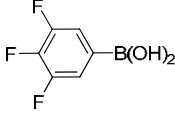
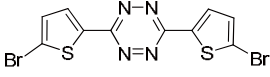
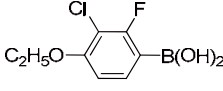
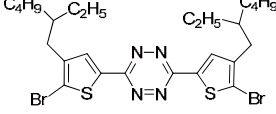
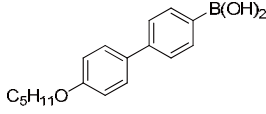
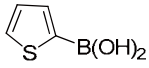
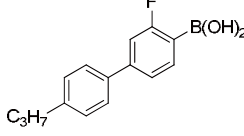
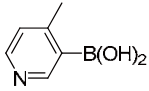
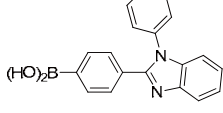
Tributyl(thieno[3,2-b]thiophen-2-yl)stannane CAT# IN1502	(3-(2-Ethylhexyl)thiophen-2-yl)trimethylstannane CAT# IN1671
 CAS# [160032-41-7] Formula $C_{18}H_{30}S_2Sn$ FW 429.27	 CAS# Formula $C_{15}H_{28}SSn$ FW 359.16
Tributyl(5-hexylthiophen-2-yl)stannane CAT# IN1111	5-Bromo-3-(2-ethylhexyl)thiophene-2-carbaldehyde CAT# IN1970
 CAS# Formula $C_{22}H_{42}SSn$ FW 457.34	 CAS# Formula $C_{13}H_{19}BrOS$ FW 303.26
2,5-Bis(trimethylstannyl)thiophene CAT# IN1477	5-Bromo-4-(2-ethylhexyl)thiophene-2-carbaldehyde CAT# IN1971
 CAS# [86134-26-1] Formula $C_{10}H_{20}SSn_2$ FW 409.75	 CAS# Formula $C_{13}H_{19}BrOS$ FW 303.26
Tributyl(thiophen-2-yl)stannane CAT# IN1127	5-Bromo-4-(2-ethylhexyl)furan-2-carbaldehyde CAT# IN1972
 CAS# [54663-78-4] Formula $C_{16}H_{30}SSn$ FW 373.18	 CAS# Formula $C_{13}H_{19}BrO_2$ FW 287.19
Tributyl(4-hexylthiophen-2-yl)stannane CAT# IN1481	3-(2-Butyloctyl)thiophene CAT# IN1496
 CAS# [444579-42-4] Formula $C_{22}H_{42}SSn$ FW 457.34	 CAS# Formula $C_{16}H_{28}S$ FW 252.46
2-Thienyltriphenylphosphonium bromide CAT# IN1045	3-(2-Hexyldecyl)thiophene CAT# IN1490
 CAS# [23259-98-5] Formula $C_{23}H_{20}BrPS$ FW 439.35	 CAS# Formula $C_{20}H_{36}S$ FW 308.56
3-(2-Ethylhexyl)thiophene CAT# IN1470	Tributyl(4-(2-hexyldecyl)thiophen-2-yl)stannane CAT# IN1491
 CAS# [121134-38-1] Formula $C_{12}H_{20}S$ FW 196.35	 CAS# Formula $C_{32}H_{62}SSn$ FW 597.61
2-Bromo-3-(2-ethylhexyl)thiophene CAT# IN1471	3-(2-Octyldodecyl)thiophene CAT# IN1492
 CAS# [4891-44-5] Formula $C_{12}H_{18}BrS$ FW 275.25	 CAS# Formula $C_{24}H_{44}S$ FW 364.67

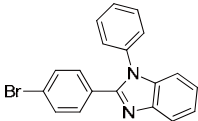
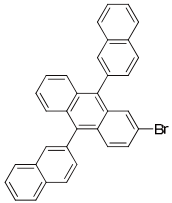
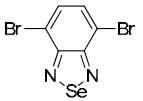
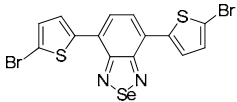
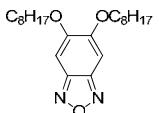
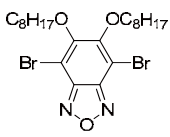
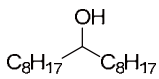
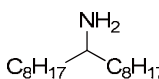
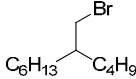
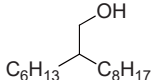
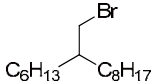
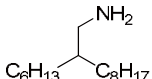
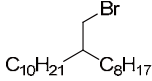
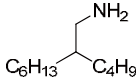
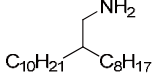
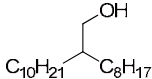
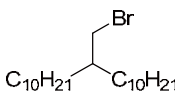
Tributyl(4-(2-octyldodecyl)thiophen-2-yl)stannane CAT# IN1493  CAS# Formula FW C₃₆H₇₀SSn 653.72	4,4,5,5-Tetramethyl-2-(3-octylthiophen-2-yl)-1,3,2-dioxaborolane CAT# IN1975  CAS# Formula FW [405165-14-2] C₁₈H₃₁BO₂S 322.31
4-(2-Octyldodecyl)thiophene-2-carbonitrile CAT# IN1312  CAS# Formula FW C₂₅H₄₃NS 389.68	4-Octyl-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophene-2-carbaldehyde CAT# IN1978  CAS# Formula FW C₁₉H₃₁BO₂S 350.32
4-Hexylthiophene-2-carbonitrile CAT# IN1112  CAS# Formula FW [1224430-39-0] C₁₁H₁₃NS 193.31	3,4-Dibromothiophene CAT# IN1473  CAS# Formula FW [3141-26-2] C₄H₂Br₂S 241.93
4-Hexylthiophene-2-carbaldehyde CAT# IN1113  CAS# Formula FW [222554-30-5] C₁₁H₁₆OS 196.31	3,4-Dibutyl-2-iodothiophene CAT# IN1474  CAS# Formula FW [565186-12-1] C₁₂H₁₉IS 322.25
2-Bromo-4-hexylthiophene CAT# IN1114  CAS# Formula FW [210705-84-3] C₁₀H₁₅BrS 247.20	3,4-Dibutyl-2,5-diiodothiophene CAT# IN1475  CAS# Formula FW [133750-15-9] C₁₂H₁₈I₂S 448.15
2,5-Dibromo-3-hexylthiophene CAT# IN1154  CAS# Formula FW [116971-11-0] C₁₀H₁₄Br₂S 326.09	Thiophene-2,3-dicarbonitrile CAT# IN1478  CAS# Formula FW [18853-42-4] C₆H₂N₂S 134.16
3-Octylthiophene CAT# IN1472  CAS# Formula FW [65016-62-8] C₁₂H₂₀S 196.35	5-Bromothiophene-2,3-dicarbonitrile CAT# IN1479  CAS# Formula FW C₆HBrN₂S 213.05
2-(3-Hexylthiophen-2-yl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane CAT# IN1973  CAS# Formula FW [850881-09-3] C₁₆H₂₇BO₂S 294.26	2-((5-Bromothiophen-2-yl)methylene)malononitrile CAT# IN1480  CAS# Formula FW [81020-78-2] C₈H₃BrN₂S 239.09

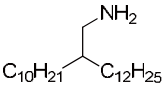
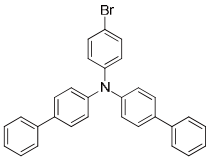
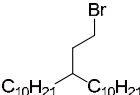
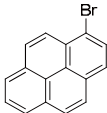
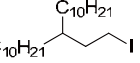
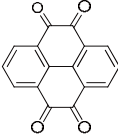
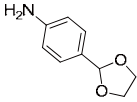
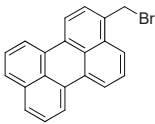
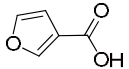
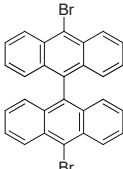
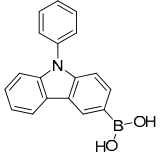
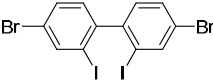
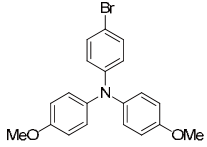
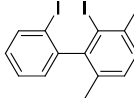
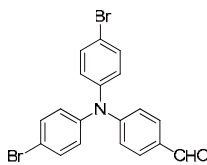
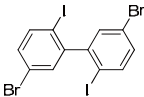
2-Bromo-5-(2-octyldodecyl)thiophene CAT# IN1482	3,3',5,5'-Tetrabromo-2,2'-bithiophene CAT# IN1024
 CAS# [1004524-17-7] Formula $C_{24}H_{43}BrS$ FW 443.57	 CAS# [125143-53-5] Formula $C_8H_2Br_4S_2$ FW 481.85
5-Bromo-2-(2-ethylhexyl)-3-hexylthiophene CAT# IN1488	3,3'-Dibromo-5,5'-bis-trimethylsilyl-2,2'-bithiophene CAT# IN1013
 CAS# Formula $C_{18}H_{31}BrS$ FW 359.41	 CAS# [207742-50-5] Formula $C_{14}H_{20}Br_2S_2Si_2$ FW 468.42
3,4-Dimethylthiophene CAT# IN1489	2,2'-Bis-triisopropylsilyl-4,4'-dibromo-5,5'-bithiazole CAT# IN1015
 CAS# [632-15-5] Formula C_6H_8S FW 112.19	 CAS# [1223559-98-5] Formula $C_{24}H_{42}Br_2N_2S_2Si_2$ FW 638.71
Thiophene-3,4-dicarboxylic acid CAT# IN1121	2,5-Di(thiophen-2-yl)thiazole CAT# IN1304
 CAS# [4282-29-5] Formula $C_6H_4O_4S$ FW 172.16	 CAS# [54987-01-8] Formula $C_{11}H_7NS_3$ FW 249.37
4,6-Dibromothieno[3,4-c]furan-1,3-dione CAT# IN1122	(3,3'-Difluoro-[2,2'-bithiophene]-5,5'-diyl)bis(trimethylstannane) CAT# IN1064
 CAS# [1015423-45-6] Formula $C_6Br_2O_3S$ FW 311.94	 CAS# [1619967-09-7] Formula $C_{14}H_{20}F_2S_2Sn_2$ FW 527.86
3,3'-Dibromo-2,2'-bithiophene CAT# IN1025	4,4'-Didodecyl-2,2'-bithiophene CAT# IN1515
 CAS# [51751-44-1] Formula $C_8H_2Br_2S_2$ FW 324.05	 CAS# Formula $C_{32}H_{54}S_2$ FW 502.90
5,5'-Bis(trimethylstannyl)-2,2'-bithiophene CAT# IN1207	(4,4'-Didodecyl-[2,2'-bithiophene]-5,5'-diyl)bis(trimethylstannane) CAT# IN1516
 CAS# [143367-56-0] Formula $C_{14}H_{22}S_2Sn_2$ FW 491.87	 CAS# [1007347-63-8] Formula $C_{38}H_{70}S_2Sn_2$ FW 828.51
Tributyl(5'-hexyl-[2,2'-bithiophen]-5-yl)stannane CAT# IN1297	2,5-Di(2-thienyl)thiophene CAT# IN1204
 CAS# [211737-37-0] Formula $C_{26}H_{44}S_2Sn$ FW 539.47	 CAS# [1081-34-1] Formula $C_{12}H_8S_3$ FW 248.38

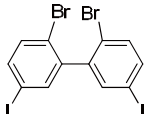
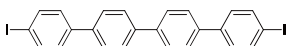
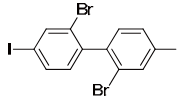
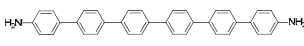
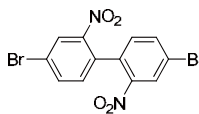
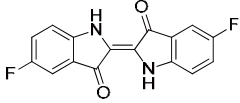
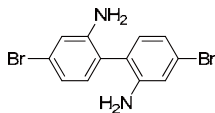
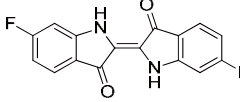
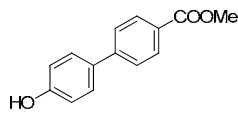
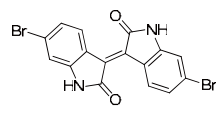
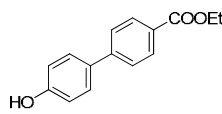
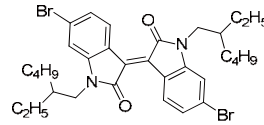
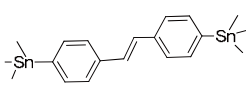
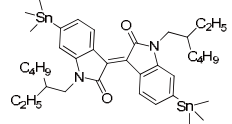
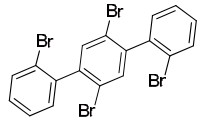
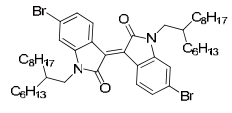
2,5-Bis(2-thienyl)-3,4-diaminothiophene CAT# IN1205	5"-Bromo-[2,2':5',2"-terthiophene]-5-carbaldehyde CAT# IN1520
 CAS# [185691-91-2] Formula C₁₂H₁₀N₂S₃ FW 278.42	 CAS# Formula C₁₃H₇BrOS₃ FW 355.29
2,5-Bis[(5-trimethylstannyl)-2-thienyl]thiophene CAT# IN1206	2,5-Di(thiophen-2-yl)terephthalic acid CAT# IN1310
 CAS# [178931-63-0] Formula C₁₈H₂₄S₃Sn₂ FW 574.00	 CAS# Formula C₁₆H₁₀O₄S₂ FW 330.38
2,2':5',2":5",2""-Quinquethiophene CAT# IN1200	(E)-1,2-Bis(5-(trimethylstannyl)thiophen-2-yl)ethene CAT# IN1450
 CAS# [5660-45-7] Formula C₂₀H₁₂S₅ FW 412.63	 CAS# Formula C₁₆H₂₄S₂Sn₂ FW 517.91
3,3"-Didecyl-2,2':5',2"-terthiophene CAT# IN1498	(E)-2,3-bis(5-(trimethylstannyl)thiophen-2-yl)acrylonitrile CAT# IN1457
 CAS# Formula C₃₂H₄₈S₃ FW 528.92	 CAS# Formula C₁₇H₂₃NS₂Sn₂ FW 542.92
3,3"-Diocetyl-2,2':5',2"-terthiophene CAT# IN1499	2,3-bis(5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)thiophen-2-yl)fu maronitrile CAT# IN1459
 CAS# Formula C₂₈H₄₀S₃ FW 472.81	 CAS# Formula C₂₄H₂₈B₂N₂O₄S₂ FW 494.24
5,5"-Dibromo-3,3"-dioctyl-2,2':5',2"-terthiophene CAT# IN1500	(E)-1,2-bis(5-(trimethylstannyl)thieno[3,2-b]thiophen-2-yl)ethene CAT# IN1455
 CAS# [185350-30-5] Formula C₂₈H₃₈Br₂S₃ FW 630.60	 CAS# Formula C₂₀H₂₄S₄Sn₂ FW 630.08
3,3"-Diocetyl-[2,2':5',2"-terthiophene]-5-carbaldehyde CAT# IN1504	2,2'-(3,4-Dibutylthiophene-2,5-diyl)bis(ethyne-2,1-diyl)bis(3,4-dibutylthiophene) CAT# IN1476
 CAS# Formula C₂₉H₄₀OS₃ FW 500.82	 CAS# Formula C₄₀H₅₆S₃ FW 633.07
5"-Bromo-3,3"-dioctyl-[2,2':5',2"-terthiophene]-5-carbaldehyde CAT# IN1505	(3,3""-Dihexyl-[2,2':5',2":5",2""-quaterthiophene]-5,5""-diyl)bis(trimethylstannane) CAT# IN1514
 CAS# [1342311-48-1] Formula C₂₉H₃₈BrOS₃ FW 579.72	 CAS# Formula C₃₄H₅₀S₄Sn₂ FW 824.44

Monomer-Triazole and Tetrazine Series		
2-Octyl-1,2,3-benzotriazole		
CAT# IN1027		
	CAS#	[112642-69-0]
	Formula	C ₁₄ H ₂₁ N ₃
	FW	231.34
2-(6-Bromohexyl)benzotriazole		
CAT# IN1032		
	CAS#	[890704-00-4]
	Formula	C ₁₂ H ₁₆ BrN ₃
	FW	282.18
4,7-Dibromo-2-octyl-1,2,3-benzotriazole		
CAT# IN1026		
	CAS#	[960509-83-5]
	Formula	C ₁₄ H ₁₆ Br ₂ N ₃
	FW	389.13
4,7-Dibromo-2-(heptadecan-9-yl)-2H-benzo[1,2,3]triazole		
CAT# IN1645		
	CAS#	
	Formula	C ₂₃ H ₃₇ Br ₂ N ₃
	FW	515.37
5,6-Difluoro-2-(heptadecan-9-yl)-2H-benzo[d][1,2,3]triazole		
CAT# IN1315		
	CAS#	
	Formula	C ₂₃ H ₃₇ F ₂ N ₃
	FW	393.56
4,7-Dibromo-5,6-difluoro-2-(heptadecan-9-yl)-2H-benzo[d][1,2,3]triazole		
CAT# IN1646		
	CAS#	
	Formula	C ₂₃ H ₃₅ Br ₂ F ₂ N ₃
	FW	551.35
2-(6-Bromohexyl)-4,7-dibromobenzotriazole		
CAT# IN1033		
	CAS#	[890704-02-6]
	Formula	C ₁₂ H ₁₄ Br ₃ N ₃
	FW	439.97
4,7-Bis(5-bromofuran-2-yl)-2-(2-ethylhexyl)-5,6-difluoro-2H-benzo[d][1,2,3]triazole		
CAT# IN1392		
	CAS#	
	Formula	C ₂₂ H ₂₁ Br ₂ F ₂ N ₃ O ₂
	FW	557.23
4,7-Dibromo-2-(2-ethylhexyl)-5,6-difluoro-2H-benzo[d][1,2,3]triazole		
CAT# IN1385		
	CAS#	
	Formula	C ₁₄ H ₁₇ Br ₂ F ₂ N ₃
	FW	425.11
4,7-Bis(5-bromothiophen-2-yl)-2-(2-ethylhexyl)-5,6-difluoro-2H-benzo[d][1,2,3]triazole		
CAT# IN1393		
	CAS#	
	Formula	C ₂₂ H ₂₁ Br ₂ F ₂ N ₃ S ₂
	FW	589.36
2-(2-Ethylhexyl)-5,6-difluoro-4,7-bis(5-(trimethylstannyl)thiophen-2-yl)-2H-benzo[d][1,2,3]triazole		
CAT# IN1394		
	CAS#	
	Formula	C ₂₈ H ₃₉ F ₂ N ₃ S ₂ Sn ₂
	FW	757.18
4,7-Dibromo-2-(2-butyloctyl)-5,6-difluoro-2H-benzo[d][1,2,3]triazole		
CAT# IN1386		
	CAS#	[1283099-24-0]
	Formula	C ₁₈ H ₂₆ Br ₂ F ₂ N ₃
	FW	481.22
4,7-Dibromo-5,6-difluoro-2-octyl-2H-benzo[d][1,2,3]triazole		
CAT# IN1387		
	CAS#	
	Formula	C ₁₄ H ₁₇ Br ₂ F ₂ N ₃
	FW	425.11

4,7-Bis(5-bromothiophen-2-yl)-5,6-difluoro-2-octyl-2H-benzo[d][1,2,3]triazole CAT# IN1388	3,4-Difluorophenylboronic acid CAT# BA105
 CAS# Formula FW C₂₂H₂₁Br₂F₂N₃S₂ 589.36	 CAS# Formula FW [168267-41-2] C₆H₅BF₂O₂ 157.91
2-Octyl-4,7-di(5-bromo-thiophen-2-yl)-2H-benzo[d][1,2,3]triazole CAT# IN1047	3,5-Difluorophenylboronic acid CAT# BA106
 CAS# Formula FW [1254062-39-9] C₂₂H₂₃Br₂N₃S₂ 553.38	 CAS# Formula FW [156545-07-2] C₆H₅BF₂O₂ 157.91
3,5-Bis(3-bromophenyl)-4-phenyl-4H-1,2,4-triazole CAT# IN1066	2,3-Difluorophenylboronic acid CAT# BA107
 CAS# Formula FW [1198843-27-4] C₂₀H₁₃Br₂N₃ 455.15	 CAS# Formula FW [121219-16-7] C₆H₅BF₂O₂ 157.91
3,5-Bis(4-bromophenyl)-4-phenyl-4H-1,2,4-triazole CAT# IN1067	3,4,5-Trifluorophenylboronic acid CAT# BA108
 CAS# Formula FW [208124-25-8] C₂₀H₁₃Br₂N₃ 455.15	 CAS# Formula FW [143418-49-9] C₆H₄BF₃O₂ 175.90
3,6-Bis(5-bromothiophen-2-yl)-1,2,4,5-tetrazine CAT# IN1370	3-Chloro-4-ethoxy-2-fluorophenylboronic acid CAT# BA111
 CAS# Formula FW C₁₀H₄Br₂N₄S₂ 404.10	 CAS# Formula FW [909122-50-5] C₈H₉BClFO₃ 218.42
3,6-Bis(5-bromo-4-(2-ethylhexyl)thiophen-2-yl)-1,2,4,5-tetrazine CAT# IN1372	4'-(Pentyloxy)biphenyl-4-ylboronic acid CAT# BA115
 CAS# Formula FW C₂₆H₃₆Br₂N₄S₂ 628.53	 CAS# Formula FW [158937-25-8] C₁₇H₂₁BO₃ 284.16
Intermediates	
Thiophen-2-ylboronic acid CAT# BA025	3-Fluoro-4'-propylbiphenyl-4-ylboronic acid CAT# BA118
 CAS# Formula FW [6165-68-0] C₄H₅BO₂S 127.96	 CAS# Formula FW [909709-42-8] C₁₅H₁₆BFO₂ 258.10
4-Methylpyridine-3-boronic acid CAT# BA030	4-(1-Phenyl-1H-benzo[d]imidazol-2-yl)phenylboronic acid CAT# BA122
 CAS# Formula FW [148546-82-1] C₆H₈BNO₂ 136.94	 CAS# Formula FW [952514-79-3] C₁₈H₁₅BN₂O₂ 314.15

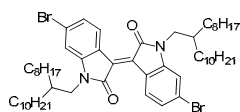
2-(4-Bromophenyl)-1-phenyl-1H-benzo[d]imidazole		CAT# HT017	
	CAS# [2620-76-0] Formula C ₁₉ H ₁₃ BrN ₂ FW 349.22		
2-Bromo-9,10-di(naphthalen-2-yl)anthracene		CAT# HT019	
	CAS# [474688-76-1] Formula C ₃₄ H ₂₁ Br FW 509.43		
4,7-Dibromo-2,1,3-benzoselenadiazole		CAT# IN1030	
	CAS# [63224-42-0] Formula C ₆ H ₂ Br ₂ N ₂ Se FW 340.86		
4,7-Bis(5-bromothiophen-2-yl)benzo[c][1,2,5]selenadiazole		CAT# IN1031	
	CAS# [534591-72-5] Formula C ₁₄ H ₆ Br ₂ N ₂ S ₂ Se FW 505.11		
5,6-Bis(octyloxy)benzo[c][1,2,5]oxadiazole		CAT# IN1042	
	CAS# [1314801-34-7] Formula C ₂₂ H ₃₆ N ₂ O ₃ FW 376.53		
4,7-Dibromo-5,6-bis(octyloxy)benzo-2,1,3-oxadiazole		CAT# IN1043	
	CAS# [1314801-35-8] Formula C ₂₂ H ₃₄ Br ₂ N ₂ O ₃ FW 534.32		
Heptadecan-9-ol		CAT# IN1051	
	CAS# [624-08-8] Formula C ₁₇ H ₃₆ O FW 256.47		
Heptadecan-9-amine		CAT# IN1351	
	CAS# [3241-20-1] Formula C ₁₇ H ₃₇ N FW 255.48		
5-(Bromomethyl)undecane		CAT# IN1382	
	CAS# [85531-02-8] Formula C ₁₂ H ₂₅ Br FW 249.23		
2-Hexyldecan-1-ol		CAT# IN1381	
	CAS# [2425-77-6] Formula C ₁₆ H ₃₄ O FW 242.44		
7-(Bromomethyl)pentadecane		CAT# IN1383	
	CAS# [52297-43-0] Formula C ₁₆ H ₃₃ Br FW 305.34		
2-Hexyldecan-1-amine		CAT# IN1352	
	CAS# [62281-05-4] Formula C ₁₆ H ₃₅ N FW 241.46		
9-(Bromomethyl)nonadecane		CAT# IN1451	
	CAS# [69620-20-8] Formula C ₂₀ H ₄₁ Br FW 361.44		
2-Butyloctan-1-amine		CAT# IN1452	
	CAS# [185.35] Formula C ₁₂ H ₂₇ N FW 185.35		
2-Octyldodecan-1-amine		CAT# IN1049	
	CAS# [62281-06-5] Formula C ₂₀ H ₄₃ N FW 297.56		
2-Octyldodecan-1-ol		CAT# IN1050	
	CAS# [5333-42-6] Formula C ₂₀ H ₄₂ O FW 298.55		
11-(Bromomethyl)heneicosane		CAT# IN1057	
	CAS# [1473452-21-9] Formula C ₂₂ H ₄₅ Br FW 389.50		

2-Decyltetradecan-1-amine  CAS# [62281-07-6] Formula $C_{24}H_{51}N$ FW 353.67	N-([1,1'-biphenyl]-4-yl)-N-(4-bromophenyl)-[1,1'-biphenyl]-4-amine  CAS# Formula $C_{30}H_{22}BrN$ FW 476.41
11-(2-Bromoethyl)henicosane  CAS# Formula $C_{23}H_{47}Br$ FW 403.52	1-Bromopyrene  CAS# [1714-29-0] Formula $C_{16}H_9Br$ FW 281.15
11-(2-Iodoethyl)henicosane  CAS# Formula $C_{23}H_{47}I$ FW 450.52	Pyrene-4,5,9,10-tetraone  CAS# Formula $C_{16}H_6O_4$ FW 262.22
4-(1,3-Dioxolan-2-yl)aniline  CAS# [19073-14-4] Formula $C_9H_{11}NO_2$ FW 165.19	1-Bromopyrene  CAS# Formula $C_{21}H_{13}Br$ FW 345.23
Furan-3-carboxylic acid  CAS# Formula $C_5H_4O_3$ FW 112.08	10,10'-Dibromo-9,9'-bianthryl  CAS# [121848-75-7] Formula $C_{28}H_{16}Br_2$ FW 512.23
9-Phenyl-9H-carbazol-3-ylboronic acid  CAS# [854952-58-2] Formula $C_{18}H_{14}BNO_2$ FW 287.12	4,4'-Dibromo-2,2'-diiodobiphenyl  CAS# [852138-89-7] Formula $C_{12}H_6Br_2I_2$ FW 563.79
4-Bromo-N,N-bis(4-methoxyphenyl)aniline  CAS# Formula $C_{20}H_{18}BrNO_2$ FW 384.27	2,2'-Diiodo-3,6-dimethyl-1,1'-biphenyl  CAS# Formula $C_{14}H_{12}I_2$ FW 434.05
4-[Bis-(4-bromophenyl)amino]benzaldehyde  CAS# [25069-38-9] Formula $C_{19}H_{13}Br_2NO$ FW 431.12	5,5'-Dibromo-2,2'-diiodobiphenyl  CAS# [873792-52-0] Formula $C_{12}H_6Br_2I_2$ FW 563.79

2,2'-Dibromo-5,5'-diiodobiphenyl  CAT# IN1484	4,4'''-Diiodo-[1,1';4',1'';4'',1''';4''',1'''';1''''',1''''''-Sexiphenyl]-4,4''''-diamine  CAT# IN1088
2,2'-Dibromo-4,4'-diiodobiphenyl  CAT# IN1485	[1,1':4',1'':4'',1''':4''',1'''';4''''',1''''''-Sexiphenyl]-4,4''''-diamine  CAT# IN1688
4,4'-Dibromo-2,2'-dinitrobiphenyl  CAT# IN1486	(E)-5,5'-difluoro-[2,2'-biindolinylidene]-3,3'-dione  CAT# IN1353
4,4'-Dibromobiphenyl-2,2'-diamine  CAT# IN1487	(E)-6,6'-difluoro-[2,2'-biindolinylidene]-3,3'-dione  CAT# IN1354
Methyl 4'-hydroxybiphenyl-4-carboxylate  CAT# IN1084	(E)-6,6'-dibromo-[3,3'-biindolinylidene]-2,2'-dione  CAT# IN1359
Ethyl 4'-hydroxybiphenyl-4-carboxylate  CAT# IN1086	(E)-6,6'-dibromo-1,1'-bis(2-ethylhexyl)-[3,3'-biindolinylidene]-2,2'-dione  CAT# IN1360
(E)-1,2-bis(4-(trimethylstannyl)phenyl)ethene  CAT# IN1449	(E)-1,1'-bis(2-ethylhexyl)-6,6'-bis(trimethylstannyl)-[3,3'-biindolinylidene]-2,2'-dione  CAT# IN1362
2,2',2'',5'-Tetrabromo-1,1':4',1''-terphenyl  CAT# IN1715	(E)-6,6'-dibromo-1,1'-bis(2-hexyldecyl)-[3,3'-biindolinylidene]-2,2'-dione  CAT# IN1367

(E)-6,6'-dibromo-1,1'-bis(2-octyldecyl)-[3,3'-biindolinylidene]-2,2'-dione

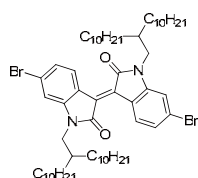
CAT# IN1363



CAS# [1263379-85-6]
Formula C₅₆H₈₈Br₂N₂O₂
FW 981.12

(E)-6,6'-Dibromo-1,1'-bis(2-decyldecyl)-[3,3'-biindolinylidene]-2,2'-dione

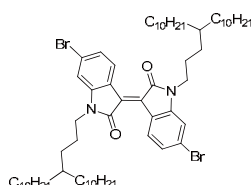
CAT# IN1361



CAS#
Formula C₆₀H₉₆Br₂N₂O₂
FW 1037.22

(E)-6,6'-Dibromo-1,1'-bis(4-decyltetradecyl)-[3,3'-biindolinylidene]-2,2'-dione

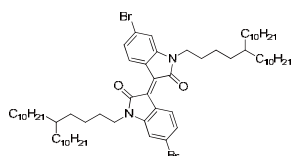
CAT# IN1364



CAS#
Formula C₆₄H₁₀₄Br₂N₂O₂
FW 1093.33

(E)-6,6'-dibromo-1,1'-bis(5-decylpentadecyl)-[3,3'-biindolinylidene]-2,2'-dione

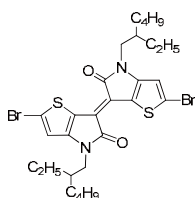
CAT# IN1365



CAS#
Formula C₆₆H₁₀₈Br₂N₂O₂
FW 1121.38

(E)-2,2'-dibromo-4,4'-bis(2-ethylhexyl)-[6,6'-bithieno[3,2-b]pyrrolylidene]-5,5'(4H,4H')-dione

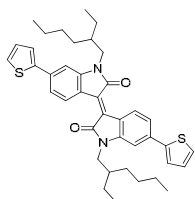
CAT# IN1368



CAS#
Formula C₂₈H₃₆Br₂N₂O₂S₂
FW 656.54

(E)-1,1'-bis(2-ethylhexyl)-6,6'-di(thiophen-2-yl)-[3,3'-biindolinylidene]-2,2'-dione

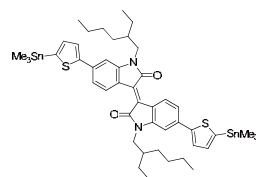
CAT# IN1369



CAS#
Formula C₄₀H₄₆N₂O₂S₂
FW 650.94

(E)-1,1'-bis(2-ethylhexyl)-6,6'-bis(5-(trimethylstannyl)thiophen-2-yl)-[3,3'-biindolinylidene]-2,2'-dione

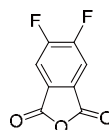
CAT# IN1366



CAS#
Formula C₄₆H₆₂N₂O₂S₂Sn₂
FW 976.55

5,6-Difluoroisobenzofuran-1,3-dione

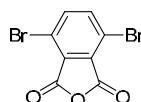
CAT# IN1421



CAS# [18959-30-3]
Formula C₈H₂F₂O₃
FW 184.10

3,6-Dibromophthalicanhydride

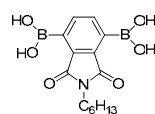
CAT# IN1423



CAS# [25834-16-6]
Formula C₈H₂Br₂O₃
FW 305.91

(2-Hexyl-1,3-dioxoisindoline-4,7-diyl)diboronic acid

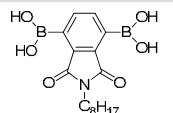
CAT# IN1432



CAS#
Formula C₁₄H₁₉B₂NO₆
FW 318.93

(2-Octyl-1,3-dioxoisindoline-4,7-diyl)diboronic acid

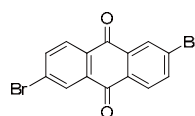
CAT# IN1433



CAS#
Formula C₁₆H₂₃B₂NO₆
FW 346.98

2,6-Dibromoanthracene-9,10-dione

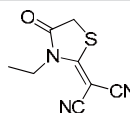
CAT# IN1085



CAS# [633-70-5]
Formula C₁₄H₆Br₂O₂
FW 366.00

2-(3-Ethyl-4-oxothiazolidin-2-ylidene)malononitrile

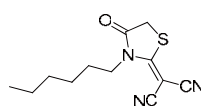
CAT# IN1406



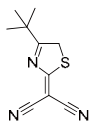
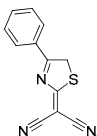
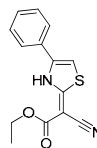
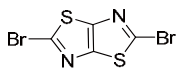
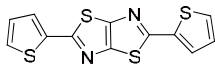
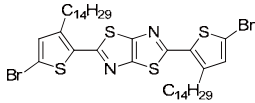
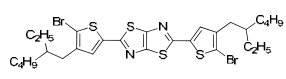
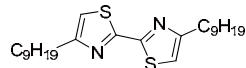
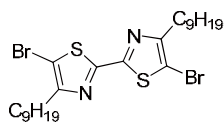
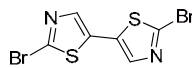
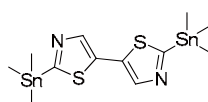
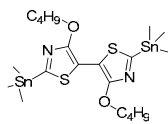
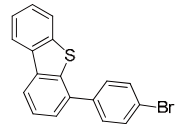
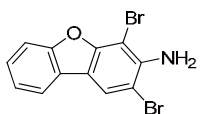
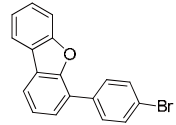
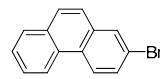
CAS# [623558-68-9]
Formula C₈H₇N₃OS
FW 193.23

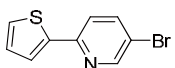
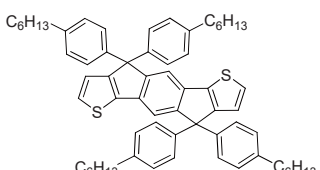
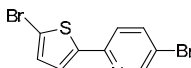
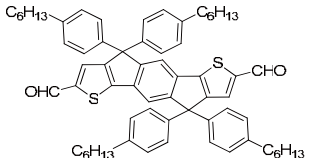
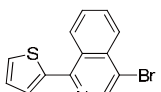
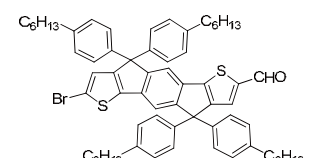
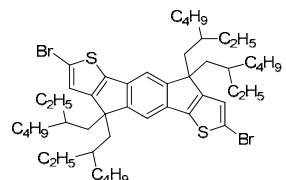
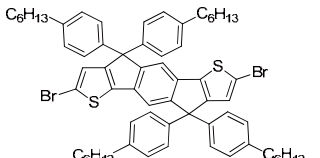
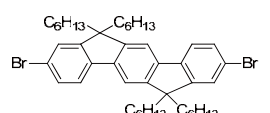
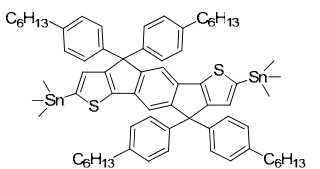
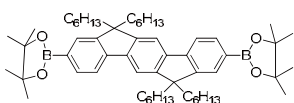
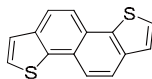
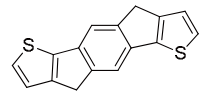
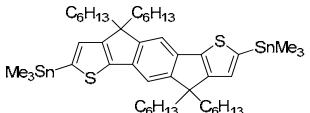
2-(3-hexyl-4-oxothiazolidin-2-ylidene)malononitrile

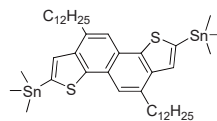
CAT# IN1408



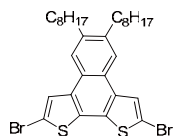
CAS#
Formula C₁₂H₁₅N₃OS
FW 249.33

2-(4-(Tert-butyl)thiazol-2(5H)-ylidene)malononitrile		CAT# IN1407	
	CAS# Formula FW	 C ₁₀ H ₁₁ N ₃ S 205.28	
2-(4-Phenylthiazol-2(5H)-ylidene)malononitrile		CAT# IN1412	
	CAS# Formula FW	 C ₁₂ H ₇ N ₃ S 225.27	
(E)-ethyl 2-cyano-2-(4-phenylthiazol-2(3H)-ylidene)acetate		CAT# IN1415	
	CAS# Formula FW	 C ₁₄ H ₁₂ N ₂ O ₂ S 272.32	
Thiazolo[5,4-d]thiazole		CAT# IN1400	
	CAS# Formula FW	 C ₄ H ₂ N ₂ S ₂ 142.20	
2,5-Dibromothiazolo[5,4-d]thiazole		CAT# IN1401	
	CAS# Formula FW	 [1040390-19-9] C ₄ Br ₂ N ₂ S ₂ 299.99	
2,5-Di(thiophen-2-yl)thiazolo[5,4-d]thiazole		CAT# IN1402	
	CAS# Formula FW	 [29608-87-5] C ₁₂ H ₆ N ₂ S ₄ 306.45	
2,5-Bis(5-bromo-3-tetradecylthiophen-2-yl)thiazolo[5,4-d]thiazole		CAT# IN1404	
	CAS# Formula FW	 C ₄₀ H ₆₀ Br ₂ N ₂ S ₄ 856.99	
2,5-Di(5-bromo-4-(2-ethylhexyl)thiophen-2-yl)-thiazolo[5,4-d]thiazole		CAT# IN1405	
	CAS# Formula FW	 C ₂₈ H ₃₆ Br ₂ N ₂ S ₄ 688.67	
4,4'-Dinonyl-2,2'-bithiazole		CAT# IN1034	
	CAS# Formula FW	 [180729-91-3] C ₂₄ H ₄₀ N ₂ S ₂ 420.72	
5,5'-Dibromo-4,4'-dinonyl-2,2'-bithiazole		CAT# IN1035	
	CAS# Formula FW	 [172100-44-6] C ₂₄ H ₃₈ Br ₂ N ₂ S ₂ 578.51	
2,2'-Dibromo-5,5'-bithiazole		CAT# IN1435	
	CAS# Formula FW	 C ₆ H ₂ Br ₂ N ₂ S ₂ 326.03	
2,2'-Bis(trimethylstannyl)-5,5'-bithiazole		CAT# IN1436	
	CAS# Formula FW	 C ₁₂ H ₂₀ N ₂ S ₂ Sn ₂ 493.85	
4,4'-Dibutoxy-2,2'-bis(trimethylstannyl)-5,5'-bithiazole		CAT# IN1440	
	CAS# Formula FW	 C ₂₀ H ₃₆ N ₂ O ₂ S ₂ Sn ₂ 638.06	
4-(4-Bromophenyl)dibenzo[b,d]thiophene		CAT# OC1025	
	CAS# Formula FW	 [530402-77-8] C ₁₈ H ₁₁ BrS 339.25	
2,4-Dibromodibenzo[b,d]furan-3-amine		CAT# OC1028	
	CAS# Formula FW	 [133953-35-2] C ₁₂ H ₇ Br ₂ NO 341.00	
4-(4-Bromophenyl)dibenzo[b,d]furan		CAT# OC1030	
	CAS# Formula FW	 [955959-84-9] C ₁₈ H ₁₁ BrO 323.18	
2-Bromophenanthrene		CAT# OC1075	
	CAS# Formula FW	 [62162-97-4] C ₁₄ H ₉ Br 257.1	

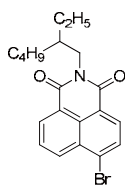
5-Bromo-2-(thiophen-2-yl)pyridine  CAS# [91891-74-6] Formula C ₉ H ₆ BrNS FW 240.12	4,4,9,9-Tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene  CAS# Formula C ₆₄ H ₇₄ S ₂ FW 907.40
5-Bromo-2-(5-bromothiophen-2-yl)pyridine  CAS# [136902-53-9] Formula C ₉ H ₅ Br ₂ NS FW 319.02	4,4,9,9-Tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-dicarbaldehyde  CAS# Formula C ₆₆ H ₇₄ O ₂ S ₂ FW 963.42
4-Bromo-1-(thiophen-2-yl)isoquinoline  CAS# Formula C ₁₃ H ₈ BrNS FW 290.18	7-Bromo-4,4,9,9-tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2-carbaldehyde  CAS# Formula C ₆₅ H ₇₃ BrOS ₂ FW 1014.31
2,7-Dibromo-4,4,9,9-tetrakis(2-ethylhexyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene  CAS# Formula C ₄₈ H ₇₂ Br ₂ S ₂ FW 873.02	2,7-Dibromo-4,4,9,9-tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene  CAS# [1049034-71-0] Formula C ₆₄ H ₇₂ Br ₂ S ₂ FW 1065.19
2,8-Dibromo-6,6,12,12-tetrahexyl-6,12-dihydroindeno[1,2-b]fluorene  CAS# Formula C ₄₄ H ₆₀ Br ₂ FW 748.76	(4,4,9,9-Tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(trimethylstannane)  CAS# [1252555-61-5] Formula C ₇₀ H ₉₀ S ₂ Sn ₂ FW 1233.01
2,2'-(6,6,12,12-Tetrahexyl-6,12-dihydroindeno[1,2-b]fluorene-2,8-diyl)bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolane)  CAS# Formula C ₅₆ H ₈₄ B ₂ O ₄ FW 842.89	Naphtho[1,2-b:5,6-b']dithiophene  CAS# [217-19-6] Formula C ₁₄ H ₈ S ₂ FW 240.34
4,9-Dihydro-s-indaceno[1,2-b:5,6-b']dithiophene  CAS# Formula C ₁₆ H ₁₀ S ₂ FW 266.38	
(4,4,9,9-Tetrahexyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(trimethylstannane)  CAS# Formula C ₄₆ H ₇₄ S ₂ Sn ₂ FW 928.63	

(5,10-Didodecyl)naphtho[1,2-*b*:5,6-*b'*]dithiophene-2,7-diyl)bis(trimethylstannane)**CAT# IN1525**

CAS#
 Formula C₄₄H₇₂S₂Sn₂
 FW 902.59

2,9-Dibromo-5,6-dioctylnaphtho[2,1-*b*:3,4-*b'*]dithiophene**CAT# IN1725**

CAS# [1040858-84-1]
 Formula C₃₀H₃₈Br₂S₂
 FW 622.56

6-Bromo-2-(2-ethylhexyl)-1H-benzo[*de*]isoquinoline-1,3(2*H*)-dione**CAT# IN1267**

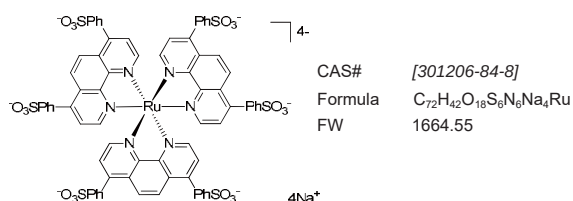
CAS#
 Formula C₂₀H₂₂BrNO₂
 FW 388.30

Protein Staining Agents

Tris(bathophenanthroline disulfonate)ruthenium(II)
tetrasodium salt

RuBPS

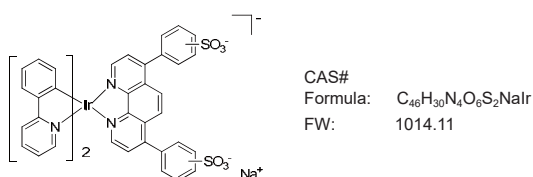
CAT# RU092092092Na



Bis(2-phenylpyridine- C^2,N)(bathophenanthroline disulfonate)
iridium(III)

Ir(ppy)₂BPS

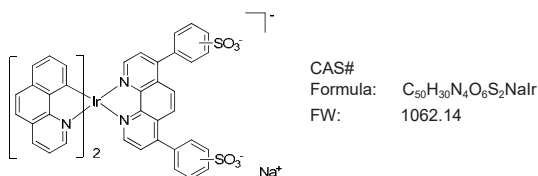
CAT# IR601601092Na



Bis(benzo[h]quinoline- C^2,N)(bathophenanthroline disulfonate)
iridium(III)

Ir(btq)₂BPS

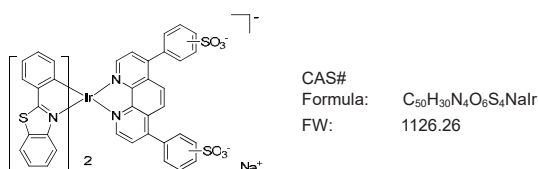
CAT# IR621621092Na



Bis(2-phenylbenzothiazole- C^2,N)(bathophenanthroline disulfonate)
iridium(III)

Ir(bt)₂BPS

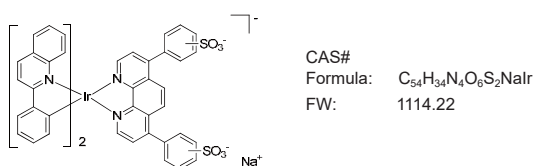
CAT# IR625625092Na



Bis(2-phenylquinoline- C^2,N)(bathophenanthroline disulfonate)
iridium(III)

Ir(2-phq)₂BPS

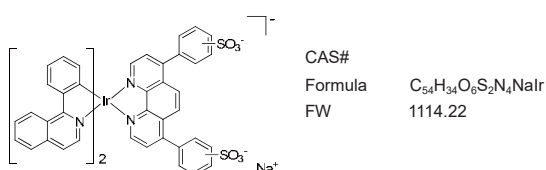
CAT# IR618618092Na



Bis(1-phenylisoquinoline- C^2,N)(bathophenanthroline disulfonate)
iridium(III)

Ir(piq)₂BPS

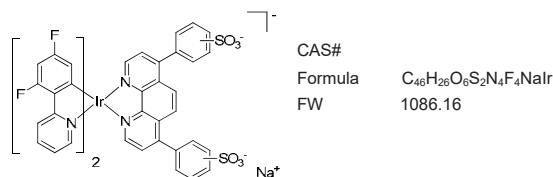
CAT# IR617617092Na



Bis(4,6-difluoro-2-(2-pyridyl)phenyl- C^2,N)(bathophenanthroline-
disulfonate)iridium(III)

Ir(f-ppy)₂BPS

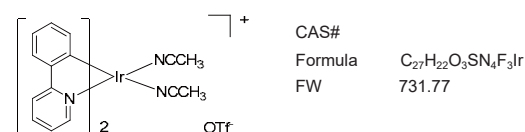
CAT# IR604604092Na



Bis(2-phenylpyridine- C^2,N)-bis(acetonitrile)iridium(III)
trifluoromethanesulfonate

Ir(ppy)₂MECN

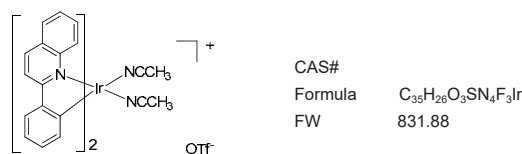
CAT# IR601601MECN



Bis(2-phenylquinoline- C^2,N)-bis(acetonitrile)iridium(III)
trifluoromethanesulfonate

Ir(2-phq)₂MECN

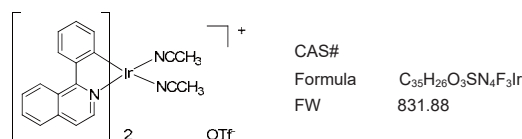
CAT# IR618618MECN



Bis(1-phenylisoquinoline- C^2,N)-bis(acetonitrile)iridium(III)
trifluoromethanesulfonate

Ir(piq)₂MECN

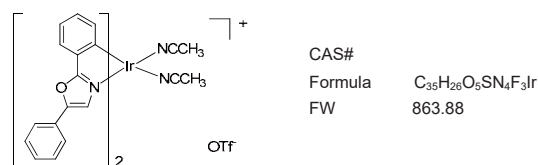
CAT# IR617617MECN



Bis(2,5-diphenyloxazole- C^2,N)-bis(acetonitrile)iridium(III)
trifluoromethanesulfonate

Ir(dpo)₂MECN

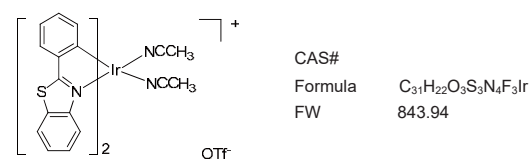
CAT# IR624624MECN

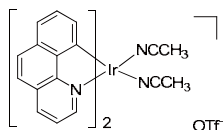


Bis(2-phenylbenzothiazole- C^2,N)-bis(acetonitrile)iridium(III)
trifluoromethanesulfonate

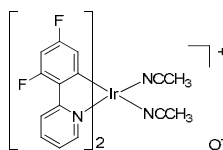
Ir(bt)₂MECN

CAT# IR625625MECN

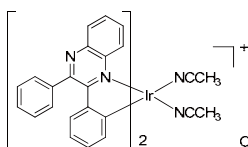


Bis(2-benzo[h]quinoline-C²,N)-bis(acetonitrile)iridium(III) trifluoromethanesulfonate
Ir(bzq)₂MECN**CAT# IR621621MECN**

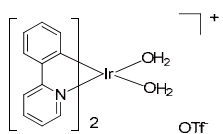
CAS#
Formula: C₃₁H₂₂O₃SN₄F₃Ir
FW: 779.81

Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)-bis(acetonitrile)iridium(III) trifluoromethanesulfonate
Ir(f-ppy)₂MECN**CAT# IR604604MECN**

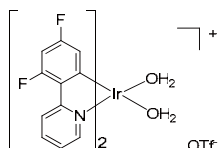
CAS#
Formula: C₂₇H₁₈N₄O₃SF₇Ir
FW: 803.73

Bis(2,3-diphenylquinoxaline-C²,N)-bis(acetonitrile)iridium(III) trifluoromethanesulfonate
Ir(dpq)₂MECN**CAT# IR628628MECN**

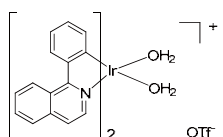
CAS#
Formula: C₄₅H₃₂N₆O₃SF₃Ir
FW: 986.07

Bis(2-phenylpyridine-C²,N)-bis(aquo)iridium(III) trifluoromethanesulfonate
CAT# IR601601H2O

CAS#
Formula: C₂₃H₂₀N₂O₅SF₃Ir
FW: 685.65

Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)-bis(aquo)iridium(III) trifluoromethanesulfonate
CAT# IR604604H2O

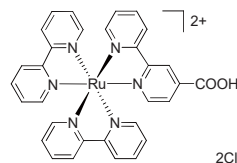
CAS#
Formula: C₂₃H₁₆N₂O₅SF₇Ir
FW: 757.65

Bis(1-phenylisoquinoline-C²,N)-bis(aquo)iridium(III) trifluoromethanesulfonate
CAT# IR617617H2O

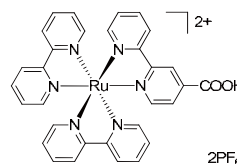
CAS#
Formula: C₃₁H₂₄N₂O₅SF₃Ir
FW: 785.81

Labeling Reagents

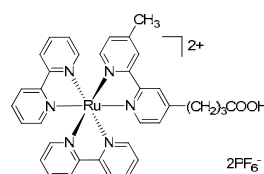
Ru Complexes

Bis(2,2'-bipyridyl)(4-carboxyl-2,2'-bipyridyl)ruthenium(II) dichloride
CAT# RU401001001Cl

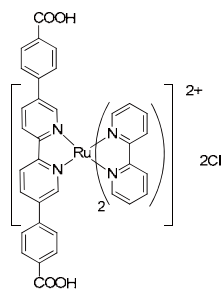
CAS#
Formula: C₃₁H₂₄O₂N₆Cl₂Ru
FW: 684.55

Bis(2,2'-bipyridyl)(4-carboxyl-2,2'-bipyridyl)ruthenium(II) bishexafluorophosphate
CAT# RU401001001PF6

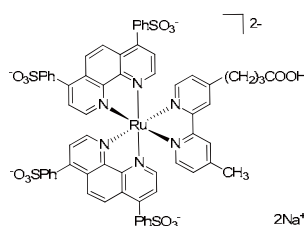
CAS#
Formula: C₃₁H₂₄O₂F₁₂N₆P₂Ru
FW: 903.56

Bis(2,2'-bipyridyl)(4-methyl-4'-carboxypropyl-2,2'-bipyridyl)ruthenium(II) bishexafluorophosphate
CAT# RU402001001PF6

CAS#
Formula: C₃₅H₃₂O₂F₁₂N₆P₂Ru
FW: 959.67

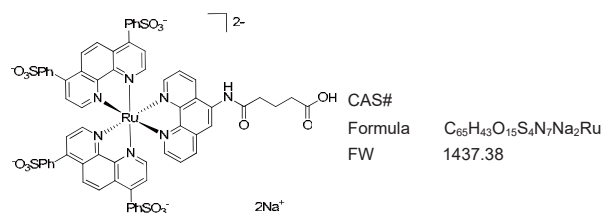
Bis(2,2'-bipyridyl)(5,5'-Di-p-benzoic acid-[2,2']bipyridinyl)ruthenium(II) dichloride
CAT# RU430001001Cl

CAS#
Formula: C₄₄H₃₂Cl₂RuN₆O₄
FW: 880.74

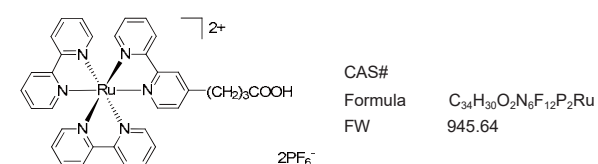
Bis(bathophenanthroinedisulfonate)(4-methyl-4'-carboxypropyl-2,2'-bipyridyl)ruthenium(II) disodium salt
CAT# RU402092092Na

CAS#
Formula: C₆₃H₄₄O₁₄S₄N₆Na₂Ru
FW: 1384.36

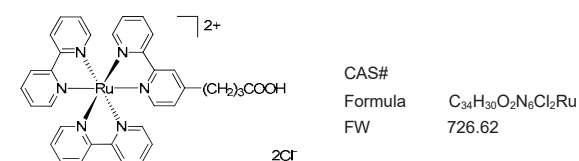
Bis(bathophenanthroline disulfonate)[5-(1,10-phenanthroline-5-yl amino)-5-oxopentanoic acid] ruthenium(II) disodium salt
CAT# RU422092092Na



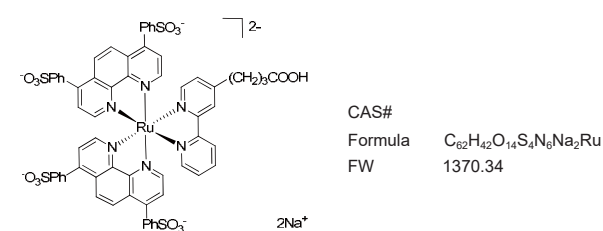
Bis(2,2'-bipyridyl)(4-carboxypropyl-2,2'-bipyridyl)ruthenium(II) hexafluorophosphate
CAT# RU403001001PF6



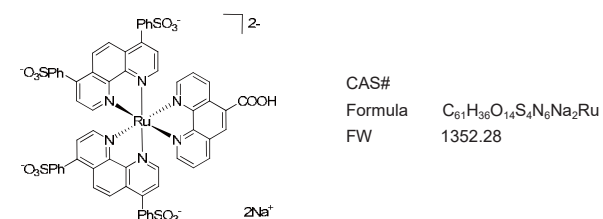
Bis(2,2'-bipyridyl)(4-carboxypropyl-2,2'-bipyridyl)ruthenium(II) dichloride
CAT# RU403001001Cl



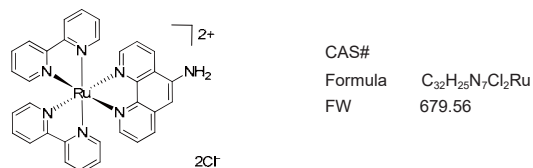
Bis(bathophenanthroline disulfonate)(4-carboxypropyl-2,2'-bipyridyl) ruthenium(II) disodium salt
CAT# RU403092092Na



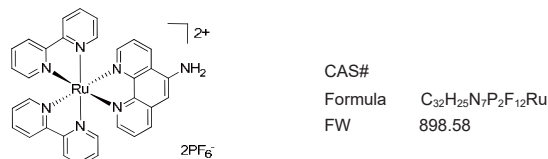
Bis(bathophenanthroline disulfonate)(4-carboxy-1,10-phenanthroline) ruthenium(II) disodium salt
CAT# RU408092092Na



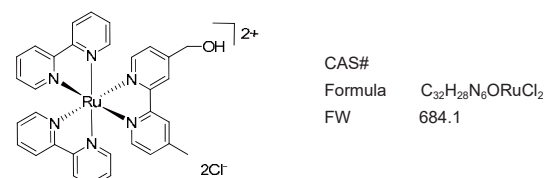
Bis(2,2'-bipyridyl)(5-amino-1,10-phenanthroline)ruthenium(II) dichloride
CAT# RU082001001Cl



Bis(2,2'-bipyridyl)(5-amino-1,10-phenanthroline)ruthenium(II) bishexafluorophosphate
CAT# RU082001001PF6

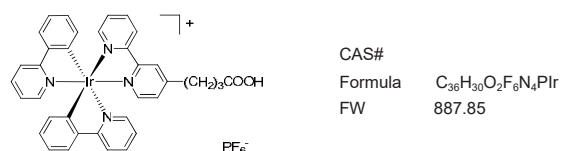


Bis(2,2'-bipyridyl)(4'-methyl-2,2'-bipyridin-4-yl)methanol ruthenium(II) dichloride
CAT# RU520001001Cl

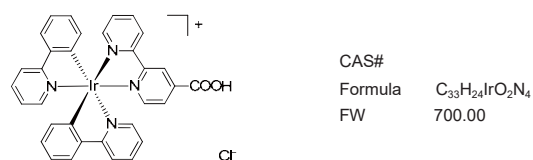


Ir Complexes

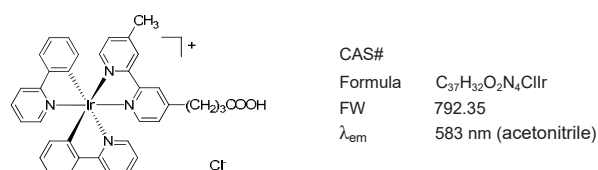
Bis(2-phenylpyridine-C²,N)(4-carboxy propyl-2,2'-bipyridyl) iridium(III) hexafluorophosphate
CAT# IR403601601PF6



Bis(2-phenylpyridine-C²,N)(4-carboxyl-2,2'-bipyridine)iridium(III) chloride
CAT# IR401601601Cl

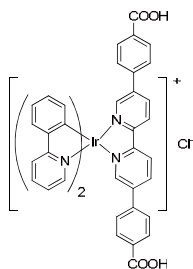


Bis(2-phenylpyridine-C²,N)(4-methyl-4'-carboxypropyl-2,2'-bipyridyl) iridium(III) chloride
CAT# IR402601601Cl



**Bis(2-phenylpyridine-C²,N)(5,5'-Di-p-benzoic acid-[2,2']
bipyridinyl)iridium(III) chloride**

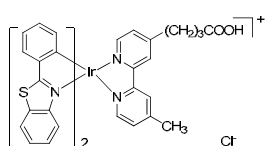
CAT# IR430601601CI



CAS#
Formula C₄₆H₃₂ClN₄O₄Ir
FW 932.44

**Bis(2-phenylbenzothiazole-C²,N)(4-methyl-4'-carboxypropyl-2,2'-
bipyridyl)iridium(III) chloride**

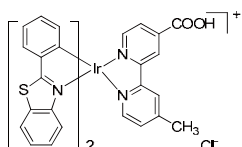
CAT# IR402625625CI



CAS#
Formula C₄₁H₃₂O₂N₄S₂ClIr
FW 904.52

**Bis(2-phenylbenzothiazole-C²,N)(4-methyl-4'-carboxy-2,2'-bipyridyl)
iridium(III) chloride**

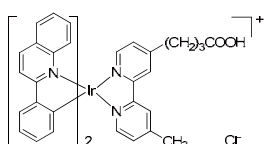
CAT# IR406625625CI



CAS#
Formula C₃₈H₂₆O₂N₄S₂ClIr
FW 862.44
λ_{em} 529 nm (acetonitrile)
565 nm (acetonitrile)

**Bis(2-phenylquinoline-C²,N)(4-methyl-4'-carboxypropyl-2,2'-bipyridyl)
iridium(III) chloride**

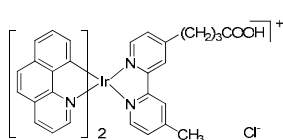
CAT# IR402618618CI



CAS#
Formula C₄₅H₃₆O₂N₄ClIr
FW 892.48

**Bis(2-benzo[h]quinoline-C²,N)(4-methyl-4'-carboxypropyl-2,2'-
bipyridyl)iridium(III) chloride**

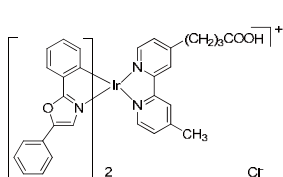
CAT# IR402621621CI



CAS#
Formula C₄₁H₃₂N₄O₂ClIr
FW 840.39

**Bis(2,5-diphenyloxazole-C²,N)(4-methyl-4'-carboxypropyl-2,2'-
bipyridyl)iridium(III) chloride**

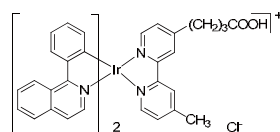
CAT# IR402624624CI



CAS#
Formula C₄₅H₃₆N₄O₄ClIr
FW 924.46

**Bis(1-phenylisoquinoline)(4-methyl-4'-carboxypropyl-2,2'-
bipyridyl)iridium(III) chloride**

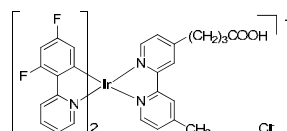
CAT# IR402617617CI



CAS#
Formula C₄₅H₃₆N₄O₂ClIr
FW 892.46
λ_{em} 593 nm (methanol)

**Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)(4-methyl-4'-
carboxypropyl-2,2'-bipyridyl)iridium(III) chloride**

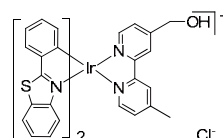
CAT# IR402604604CI



CAS#
Formula C₃₇H₂₈N₄O₂F₄ClIr
FW 864.31
λ_{em} 525 nm (acetonitrile)

**Bis(2-phenylbenzothiazole-C²,N)(4'-methyl-2,2'-bipyridin-4-yl)
methanol)iridium(III) chloride**

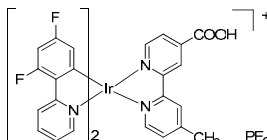
CAT# IR520625625CI



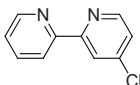
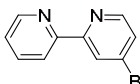
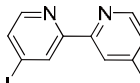
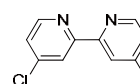
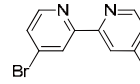
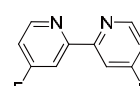
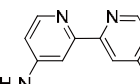
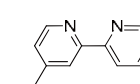
CAS#
Formula C₃₈H₂₈N₄S₂OClIr
FW 848.10

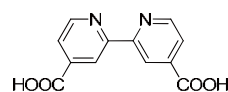
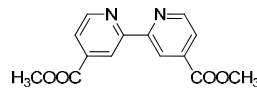
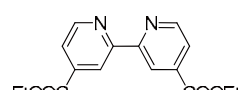
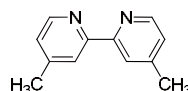
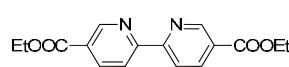
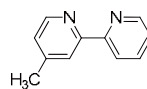
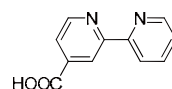
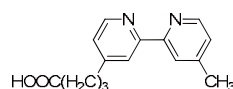
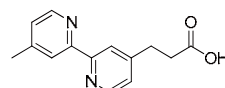
**Bis(4,6-difluoro-2-(2-pyridyl)phenyl-C²,N)(4-methyl-4'-carboxy-2,2'-
bipyridyl)iridium(III) chloride**

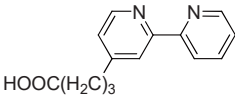
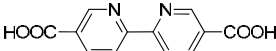
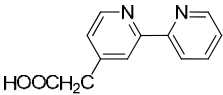
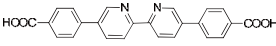
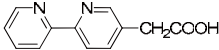
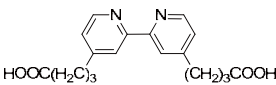
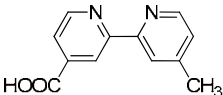
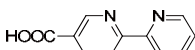
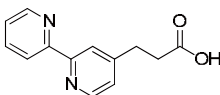
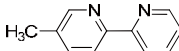
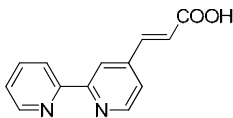
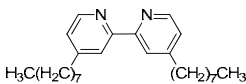
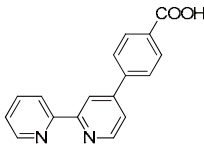
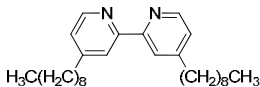
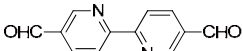
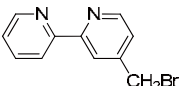
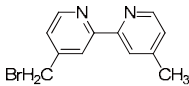
CAT# IR406604604PF6

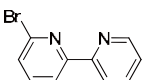
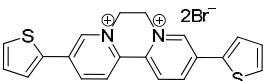
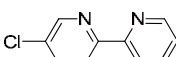
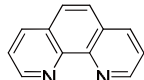
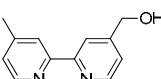
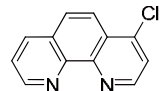
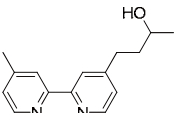
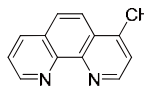
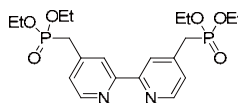
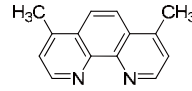
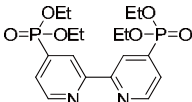
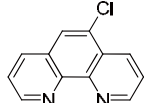
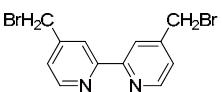
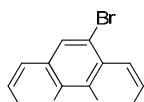
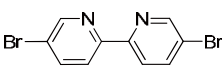
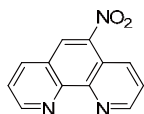
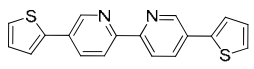


CAS#
Formula C₃₄H₂₂F₁₀IrN₄O₂P
FW 931.74

N^N Diimine Ligands			
4-Chloro-2,2'-bipyridine			
CAT# BIPY002			
	CAS#	[14162-94-8]	
	Formula	C ₁₀ H ₇ ClN ₂	
	FW	190.63	
4-Bromo-2,2'-bipyridine			
CAT# BIPY003			
	CAS#	[14162-95-9]	
	Formula	C ₁₀ H ₇ BrN ₂	
	FW	235.08	
4,4'-Diiodo-2,2'-bipyridine			
CAT# BIPY015			
	CAS#	[831225-81-1]	
	Formula	C ₁₀ H ₆ I ₂ N ₂	
	FW	407.98	
4,4'-Dichloro-2,2'-bipyridine			
CAT# BIPY016			
	CAS#	[1762-41-0]	
	Formula	C ₁₀ H ₆ Cl ₂ N ₂	
	FW	225.07	
4,4'-Dibromo-2,2'-bipyridine			
CAT# BIPY017			
	CAS#	[18511-71-2]	
	Formula	C ₁₀ H ₆ Br ₂ N ₂	
	FW	313.98	
4,4'-Difluoro-2,2'-bipyridine			
CAT# BIPY018			
	CAS#		
	Formula	C ₁₀ H ₆ F ₂ N ₂	
	FW	192.16	
2,2'-Bipyridine -4,4'-diamine			
CAT# BIPY019			
	CAS#	[18511-69-8]	
	Formula	C ₁₀ H ₁₀ N ₄	
	FW	186.21	
4,4'-Diphenyl-2,2'-bipyridine			
CAT# BIPY026			
	CAS#	[6153-92-0]	
	Formula	C ₂₂ H ₁₆ N ₂	
	FW	308.38	

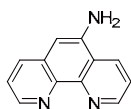
4,4'-Dicarboxy-2,2'-bipyridine**CAT# BIPY029**
CAS# [6813-38-3]
Formula C₁₂H₈N₂O₄
FW 244.21
4,4'-Bis(methoxycarbonyl)-2,2'-bipyridine**CAT# BIPY034**
CAS# [71071-46-0]
Formula C₁₄H₁₂N₂O₄
FW 272.26
4,4'-Bis(ethoxycarbonyl)-2,2'-bipyridine**CAT# BIPY037**
CAS# [1762-42-1]
Formula C₁₆H₁₆N₂O₄
FW 300.31
4,4'-Dimethyl-2,2'-bipyridine**CAT# BIPY050**
CAS# [1134-35-6]
Formula C₁₂H₁₂N₂
FW 184.24
5,5'-Bis(ethoxycarbonyl)-2,2'-bipyridine**CAT# BIPY051**
CAS# [1762-46-5]
Formula C₁₆H₁₆N₂O₄
FW 300.31
4-Methyl-2,2'-bipyridine**CAT# BIPY400**
CAS# [56100-19-7]
Formula C₁₁H₁₀N₂
FW 170.21
4-Carboxy-2,2'-bipyridine**CAT# BIPY401**
CAS# [1748-89-6]
Formula C₁₁H₈N₂O₂
FW 200.19
4-Methyl-4'-(3-carboxypropyl)-2,2'-bipyridine**CAT# BIPY402**
CAS# [114527-28-5]
Formula C₁₅H₁₆N₂O₂
FW 256.30
3-(4'-Methyl-[2,2'-bipyridin]-4-yl)propanoic acid**CAT# BIPY412**
CAS#
Formula C₁₄H₁₄N₂O₂
FW 242.27

4-(3-Carboxypropyl)-2,2'-bipyridine CAT# BIPY403  CAS# Formula FW $C_{14}H_{14}N_2O_2$ 242.27	2,2'-Bipyridine-5,5'-dicarboxylic acid CAT# BIPY429  CAS# Formula FW [1802-30-8] $C_{12}H_8N_2O_4$ 244.20
2,2'-Bipyridine-4-acetic acid CAT# BIPY404  CAS# Formula FW $C_{12}H_{10}N_2O_2$ 214.22	4,4'-([2,2'-Bipyridine]-5,5'-diyl)dibenzoic acid CAT# BIPY430  CAS# Formula FW $C_{24}H_{16}N_2O_4$ 396.39
2,2'-Bipyridine-5-acetic acid CAT# BIPY405  CAS# Formula FW [917874-25-0] $C_{12}H_{10}N_2O_2$ 214.22	2,2'-Bipyridine-4,4'-dibutanoic acid CAT# BIPY442  CAS# Formula FW [447450-80-8] $C_{18}H_{20}N_2O_4$ 328.36
4-Methyl-4'-carboxy-2,2'-bipyridine CAT# BIPY406  CAS# Formula FW [103946-54-9] $C_{12}H_{10}N_2O_2$ 214.22	5-Carboxy-2,2'-bipyridine CAT# BIPY443  CAS# Formula FW [1970-80-5] $C_{11}H_8N_2O_2$ 200.19
3-([2,2'-Bipyridin]-4-yl)propanoic acid CAT# BIPY413  CAS# Formula FW $C_{13}H_{12}N_2O_2$ 228.25	5-Methyl-2,2'-bipyridine CAT# BIPY444  CAS# Formula FW [56100-20-0] $C_{11}H_{10}N_2$ 170.21
(E)-3-([2,2'-Bipyridin]-4-yl)acrylic acid CAT# BIPY415  CAS# Formula FW $C_{13}H_{10}N_2O_2$ 226.23	4,4'-Dioctyl-2,2'-bipyridine CAT# BIPY515  CAS# Formula FW [71879-24-8] $C_{26}H_{40}N_2$ 380.61
4-([2,2'-Bipyridin]-4-yl)benzoic acid CAT# BIPY420  CAS# Formula FW $C_{17}H_{12}N_2O_2$ 276.29	4,4'-Dinonyl-2,2'-bipyridine CAT# BIPY516  CAS# Formula FW [142646-58-0] $C_{28}H_{44}N_2$ 408.66
[2,2'-Bipyridine]-5,5'-dicarbaldehyde CAT# BIPY428  CAS# Formula FW $C_{12}H_8N_2O_2$ 212.20	4-(Bromomethyl)-2,2'-bipyridine CAT# BIPY513  CAS# Formula FW $C_{11}H_9BrN_2$ 249.11
	4-Bromomethyl-4'-methyl-2,2'-bipyridine CAT# BIPY517  CAS# Formula FW [81998-05-2] $C_{12}H_{11}BrN_2$ 263.13

6-Bromo-2,2'-bipyridine  CAT# BIPY518 CAS# [10495-73-5] Formula C ₁₀ H ₇ BrN ₂ FW 235.08	3,10-Di(thiophen-2-yl)-6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazine-5,8-diiumbromide  CAT# BIPY530 CAS# Formula C ₂₀ H ₁₆ N ₂ S ₂ Br ₂ FW 508.29
5-Chloro-2,2'-bipyridine  CAT# BIPY519 CAS# [162612-08-0] Formula C ₁₀ H ₇ ClN ₂ FW 190.63	1,10-Phenanthroline  CAT# PHEN068 CAS# [66-71-7] Formula C ₁₂ H ₈ N ₂ FW 180.21
(4'-Methyl-2,2'-bipyridin-4-yl)methanol  CAT# BIPY520 CAS# [81998-04-1] Formula C ₁₂ H ₁₂ N ₂ O FW 200.24	4-Chloro-1,10-phenanthroline  CAT# PHEN072 CAS# [1891-14-1] Formula C ₁₂ H ₇ ClN ₂ FW 214.65
4-(4'-Methyl-2,2'-bipyridin-4-yl)butan-2-ol  CAT# BIPY521 CAS# [870078-13-0] Formula C ₁₅ H ₁₈ N ₂ O FW 242.32	4-Methyl-1,10-phenanthroline  CAT# PHEN073 CAS# [31301-28-7] Formula C ₁₃ H ₁₀ N ₂ FW 194.23
Tetraethyl [2,2'-bipyridine]-4,4'-diylbis(methylene)diphosphonate  CAT# BIPY525 CAS# [176220-38-5] Formula C ₂₀ H ₃₀ N ₂ O ₆ P ₂ FW 456.41	4,7-Dimethyl-1,10-phenanthroline  CAT# PHEN074 CAS# [3248-05-3] Formula C ₁₄ H ₁₂ N ₂ FW 208.26
Tetraethyl [2,2'-bipyridine]-4,4'-diyldiphosphonate  CAT# BIPY526 CAS# [174397-53-4] Formula C ₁₈ H ₂₆ N ₂ O ₆ P ₂ FW 428.36	5-Chloro-1,10-phenanthroline  CAT# PHEN079 CAS# [4199-89-7] Formula C ₁₂ H ₇ ClN ₂ FW 214.65
4,4'-Bis(bromomethyl)-2,2'-bipyridine  CAT# BIPY527 CAS# [134457-14-0] Formula C ₁₂ H ₁₀ Br ₂ N ₂ FW 342.03	5-Bromo-1,10-phenanthroline  CAT# PHEN080 CAS# [40000-20-2] Formula C ₁₂ H ₇ BrN ₂ FW 259.10
5,5'-Dibromo-2,2'-bipyridine  CAT# BIPY528 CAS# [15862-18-7] Formula C ₁₀ H ₆ Br ₂ N ₂ FW 313.98	5-Nitro-1,10-phenanthroline  CAT# PHEN081 CAS# [4199-88-6] Formula C ₁₂ H ₇ N ₃ O ₂ FW 225.20
5,5'-(Dithiophen-2-yl)-2,2'-bipyridine  CAT# BIPY529 CAS# [182631-76-1] Formula C ₁₈ H ₁₂ N ₂ S ₂ FW 320.43	

5-Amino-1,10-phenanthroline

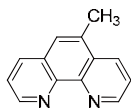
CAT# PHEN082



CAS# [54258-41-2]
Formula $C_{12}H_9N_3$
FW 195.22

5-Methyl-1,10-phenanthroline

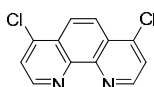
CAT# PHEN083



CAS# [3002-78-6]
Formula $C_{13}H_{10}N_2$
FW 194.23

4,7-Dichloro-1,10-phenanthroline

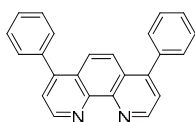
CAT# PHEN087



CAS# [5394-23-0]
Formula $C_{12}H_6Cl_2N_2$
FW 249.10

4,7-Diphenyl-1,10-phenanthroline

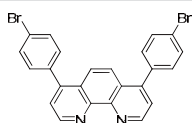
CAT# PHEN088



CAS# [1662-01-7]
Formula $C_{24}H_{16}N_2$
FW 332.40
 λ_{ab} 272 nm(THF)
 λ_{em} 379 nm(THF)

4,7-Bis(4-bromophenyl)-1,10-phenanthroline

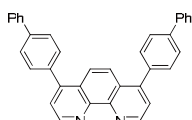
CAT# PHEN089



CAS# [97802-08-9]
Formula $C_{24}H_{14}Br_2N_2$
FW 490.19

4,7-Bis(biphenyl)-1,10-phenanthroline

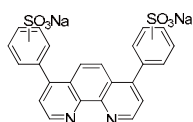
CAT# PHEN091



CAS# [96710-07-5]
Formula $C_{36}H_{24}N_2$
FW 484.59

Bathophenanthroline disulphonic acid disodium

CAT# PHEN092

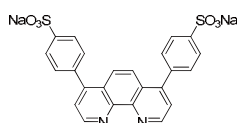


CAS# [53744-42-6]
Formula $C_{24}H_{14}N_2Na_2O_6S_2$
FW 590.53

* isomeric mixture, see *Mag. Res. Chem.*, 49(2011)816-823.

Sodium 4,4'-(1,10-phenanthroline-4,7-diyl)dibenzenesulfonate

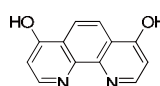
CAT# PHEN093



CAS#
Formula $C_{24}H_{14}N_2Na_2O_6S_2$
FW 536.49

4,7-Dihydroxyl-1,10-phenanthroline

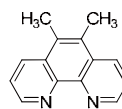
CAT# PHEN094



CAS# [3922-40-5]
Formula $C_{12}H_8N_2O_2$
FW 212.20

5,6-Dimethyl-1,10-phenanthroline

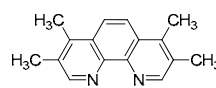
CAT# PHEN099



CAS# [3002-81-1]
Formula $C_{14}H_{12}N_2$
FW 208.26

3,4,7,8-Tetramethyl-1,10-phenanthroline

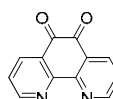
CAT# PHEN100



CAS# [1660-93-1]
Formula $C_{16}H_{16}N_2$
FW 236.31

1,10-Phenanthroline-5,6-dione

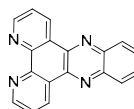
CAT# PHEN110



CAS# [27318-90-7]
Formula $C_{12}H_6N_2O_2$
FW 210.19

Dipyrido[3,2-a:2',3'-c]phenazine

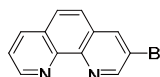
CAT# PHEN111



CAS#
Formula $C_{18}H_{10}N_4$
FW 282.30

3-Bromo-1,10-phenanthroline

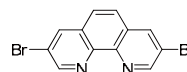
CAT# PHEN401



CAS# [66127-01-3]
Formula $C_{12}H_7BrN_2$
FW 259.10

3,8-Dibromo-1,10-phenanthroline

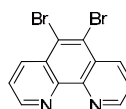
CAT# PHEN402



CAS# [100125-12-0]
Formula $C_{12}H_6Br_2N_2$
FW 338.00

5,6-Dibromo-1,10-phenanthroline

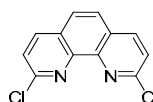
CAT# PHEN403



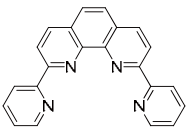
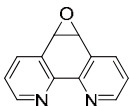
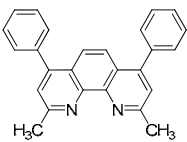
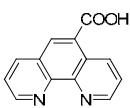
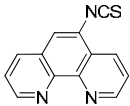
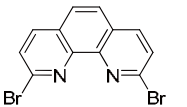
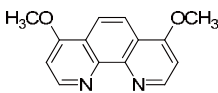
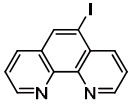
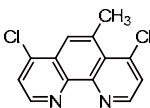
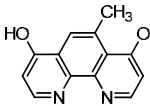
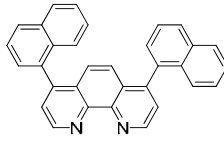
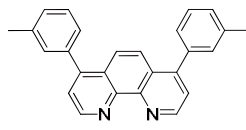
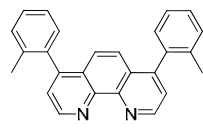
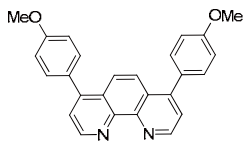
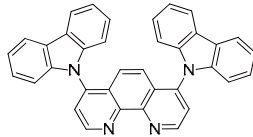
CAS# [56290-06-3]
Formula $C_{12}H_6Br_2N_2$
FW 338.00

2,9-Dichloro-1,10-phenanthroline

CAT# PHEN404

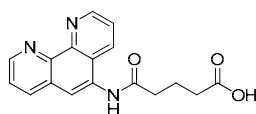


CAS# [29176-55-4]
Formula $C_{12}H_6Cl_2N_2$
FW 249.10

2,9-Di-(2'-pyridyl)-1,10-phenanthroline		CAT# PHEN405	
	CAS# Formula FW	[773883-32-2] $C_{22}H_{14}N_4$ 334.37	
5,6-Epoxy-5,6-dihydro-1,10-phenanthroline		CAT# PHEN406	
	CAS# Formula FW	[65115-91-5] $C_{12}H_8N_2O$ 196.20	
2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline		CAT# PHEN407	
BCP			
	CAS# Formula FW λ_{ab} λ_{em}	[4733-39-5] $C_{26}H_{20}N_2$ 360.45 277 nm (THF) 386 nm (THF)	
1,10-Phenanthroline-5-carboxylic acid		CAT# PHEN408	
	CAS# Formula FW	[630067-06-0] $C_{13}H_8N_2O_2$ 224.21	
5-Isothiocyanato-1,10-phenanthroline		CAT# PHEN410	
	CAS# Formula FW	[75618-99-4] $C_{13}H_7N_3S$ 237.28	
2,9-Dibromo-1,10-phenanthroline		CAT# PHEN412	
	CAS# Formula FW	[39069-02-8] $C_{12}H_6Br_2N_2$ 338.00	
4,7-Dimethoxy-1,10-phenanthroline		CAT# PHEN413	
	CAS# Formula FW	[92149-07-0] $C_{14}H_{12}N_2O_2$ 240.26	
5-Iodo-1,10-phenanthroline		CAT# PHEN414	
	CAS# Formula FW	[630067-12-8] $C_{12}H_7IN_2$ 306.10	
4,7-Dichloro-5-methyl-1,10-phenanthroline		CAT# PHEN415	
	CAS# Formula FW	[503864-02-6] $C_{13}H_8Cl_2N_2$ 262.12	
4,7-Dihydroxyl- 5-methyl-1,10-phenanthroline		CAT# PHEN416	
	CAS# Formula FW	 $C_{13}H_{10}N_2O_2$ 226.23	
4,7-Di(naphthalen-1-yl)-1,10-phenanthroline		CAT# PHEN417	
	CAS# Formula FW	[1215007-80-9] $C_{32}H_{20}N_2$ 432.51	
4,7-Dim-tolyl-1,10-phenanthroline		CAT# PHEN418	
	CAS# Formula FW	 $C_{26}H_{20}N_2$ 360.45	
4,7-Dio-tolyl-1,10-phenanthroline		CAT# PHEN419	
	CAS# Formula FW	 $C_{26}H_{20}N_2$ 360.45	
4,7-Bis(4-methoxyphenyl)-1,10-phenanthroline		CAT# PHEN420	
	CAS# Formula FW	[95950-20-2] $C_{26}H_{20}N_2O_2$ 392.45	
4,7-Di(9H-carbazol-9-yl)-1,10-phenanthroline		CAT# PHEN421	
	CAS# Formula FW	[676542-82-8] $C_{36}H_{22}N_4$ 510.59	

5-(1,10-Phenanthroline-5-ylamino)-5-oxopentanoic acid

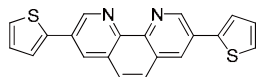
CAT# PHEN422



CAS# [163628-20-4]
Formula $C_{17}H_{15}N_3O_3$
FW 309.32

3,8-(Dithiophen-2-yl)-1,10-phenanthroline

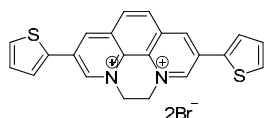
CAT# PHEN423



CAS# [753491-32-6]
Formula $C_{20}H_{12}N_2S_2$
FW 344.45

2,9-Di(thiophen-2-yl)-5,6-dihydropyrazino[1,2,3,4-*lmn*][1,10]phenanthroline-4,7-diiumbromide

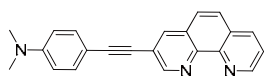
CAT# PHEN424



CAS#
Formula $C_{22}H_{16}Br_2N_2S_2$
FW 532.31

4,-((1,10-Phenanthroline-3-yl)ethynyl)-*N,N'*-dimethylaniline

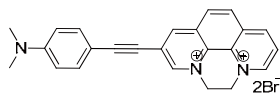
CAT# PHEN425



CAS#
Formula $C_{22}H_{17}N_3$
FW 323.39

2-((4-(Dimethylamino)phenyl)ethynyl)-5,6-dihydropyrazino[1,2,3,4-*lmn*][1,10]phenanthroline-4,7-diiumbromide

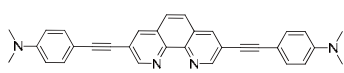
CAT# PHEN426



CAS#
Formula $C_{24}H_{21}N_3Br_2$
FW 511.25

4,4'-(1,10-Phenanthroline-3,8-diyl)bis(ethyne-2,1-diyl)bis(*N,N*-dimethylaniline)

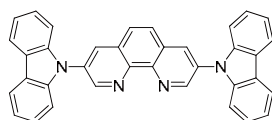
CAT# PHEN427



CAS# [250635-23-5]
Formula $C_{32}H_{26}N_4$
FW 466.58

3,8-Di(9*H*-carbazol-9-yl)-1,10-phenanthroline

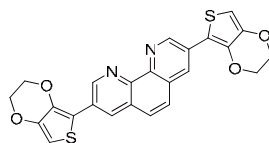
CAT# PHEN428



CAS# [796847-41-1]
Formula $C_{36}H_{22}N_4$
FW 510.59

3,8-Bis(2,3-dihydrothieno[3,4-*b*][1,4]dioxin-5-yl)-1,10-phenanthroline

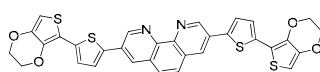
CAT# PHEN430



CAS# [1001330-07-9]
Formula $C_{24}H_{16}N_2O_4S_2$
FW 460.52

3,8-Bis(5-(2,3-dihydrothieno[3,4-*b*][1,4]dioxin-5-yl)thiophen-2-yl)-1,10-phenanthroline

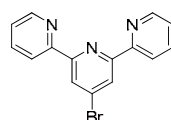
CAT# PHEN450



CAS#
Formula $C_{32}H_{20}N_2O_4S_4$
FW 624.77

4-Bromo-2,2':6',2''-terpyridine

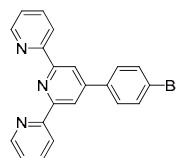
CAT# TEPY003



CAS# [149817-62-9]
Formula $C_{15}H_{10}BrN_3$
FW 312.17

4'-(4-Bromophenyl)-2,2':6',2''-terpyridine

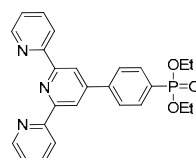
CAT# TEPY004



CAS# [89972-76-9]
Formula $C_{21}H_{14}BrN_3$
FW 388.26

Diethyl-4-(4-phenylphosphonate)-2,2':6',2''-terpyridine

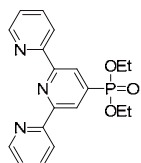
CAT# TEPY005



CAS# [194800-58-3]
Formula $C_{25}H_{24}N_3O_3P$
FW 445.45

Diethyl-4-phosphonate-2,2':6',2''-terpyridine

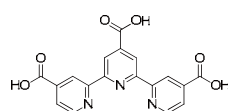
CAT# TEPY006



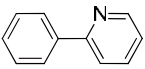
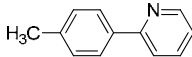
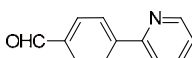
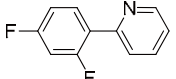
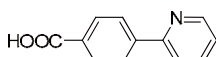
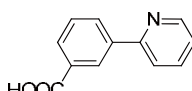
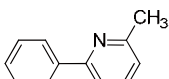
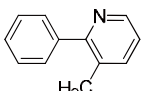
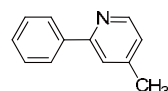
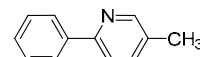
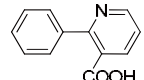
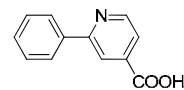
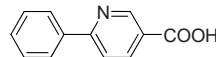
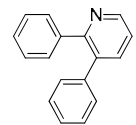
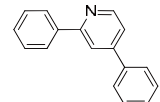
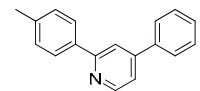
CAS# [161583-75-1]
Formula $C_{19}H_{20}N_3O_3P$
FW 369.35

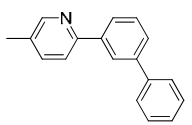
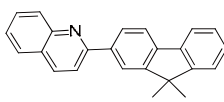
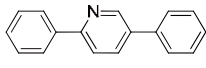
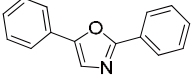
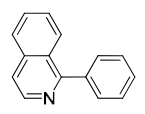
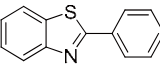
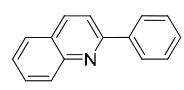
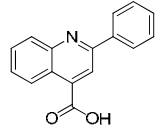
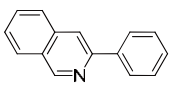
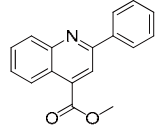
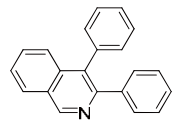
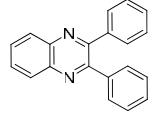
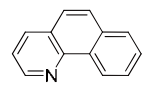
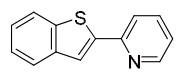
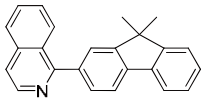
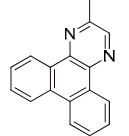
[2,2':6',2''-Terpyridine]-4,4',4''-tricarboxylic acid

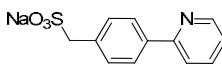
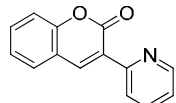
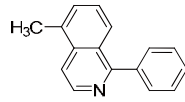
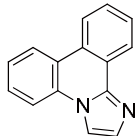
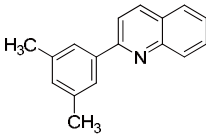
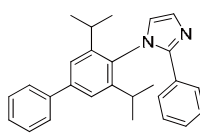
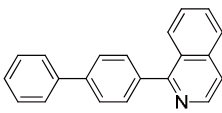
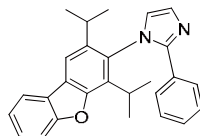
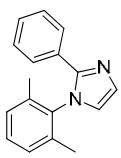
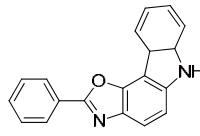
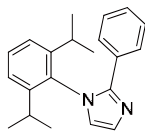
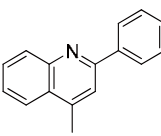
CAT# TEPY020

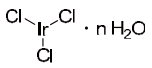
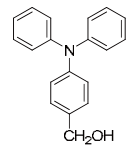
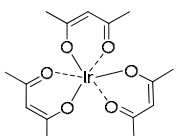
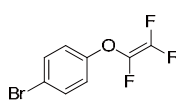
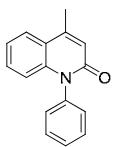
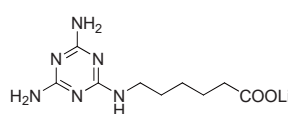
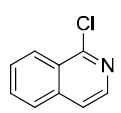
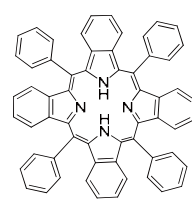
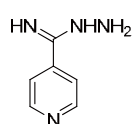
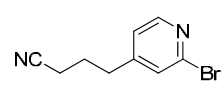
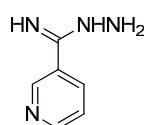
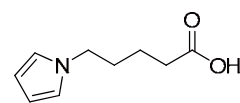
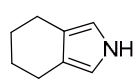
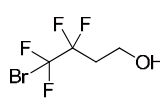
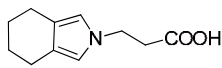
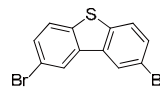


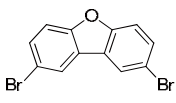
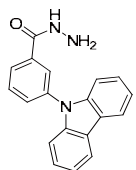
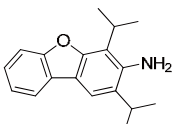
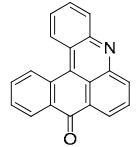
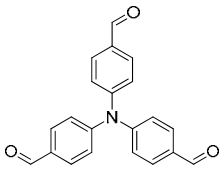
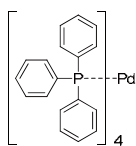
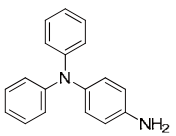
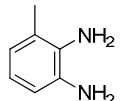
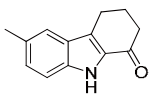
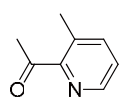
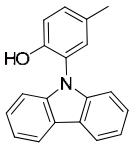
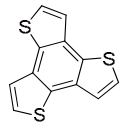
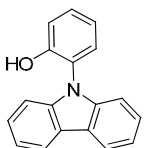
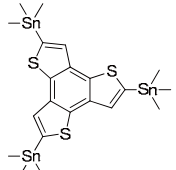
CAS# [216018-58-5]
Formula $C_{18}H_{11}N_3O_6$
FW 365.30

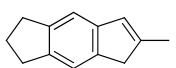
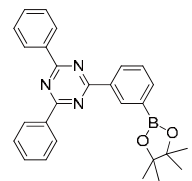
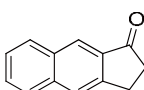
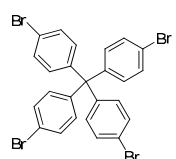
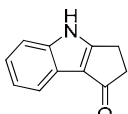
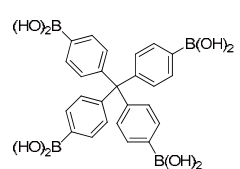
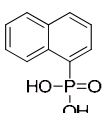
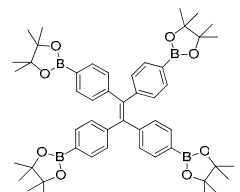
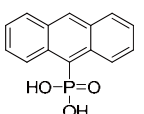
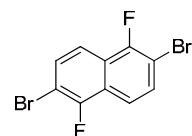
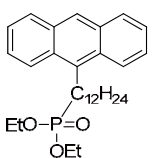
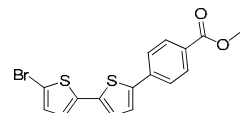
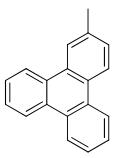
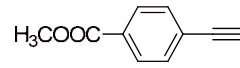
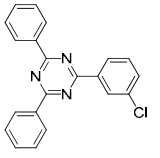
C [^] N Cyclometalating Ligands			
2-Phenylpyridine			
CAT# CN601			
	CAS#	[1008-89-5]	
	Formula	C ₁₁ H ₉ N	
	FW	155.20	
2-(4-Tolyl)pyridine			
CAT# CN602			
	CAS#	[4467-06-5]	
	Formula	C ₁₂ H ₁₁ N	
	FW	169.22	
4-(2-Pyridyl)benzaldehyde			
CAT# CN603			
	CAS#	[127406-56-8]	
	Formula	C ₁₂ H ₉ NO	
	FW	183.21	
2-(2,4-Difluorophenyl)pyridine			
CAT# CN604			
	CAS#	[391604-55-0]	
	Formula	C ₁₁ H ₇ NF ₂	
	FW	191.18	
4-Pyridin-2-yl-benzoic acid			
CAT# CN605			
	CAS#	[4385-62-0]	
	Formula	C ₁₂ H ₉ NO ₂	
	FW	199.21	
3-Pyridin-2-yl-benzoic acid			
CAT# CN606			
	CAS#	[4467-07-6]	
	Formula	C ₁₂ H ₉ NO ₂	
	FW	199.21	
2-Methyl-6-phenylpyridine			
CAT# CN607			
	CAS#	[46181-30-0]	
	Formula	C ₁₂ H ₁₁ N	
	FW	169.22	
3-Methyl-2-phenylpyridine			
CAT# CN608			
	CAS#	[10273-90-2]	
	Formula	C ₁₂ H ₁₁ N	
	FW	169.22	
4-Methyl-2-phenylpyridine			
CAT# CN609			
	CAS#	[3475-21-6]	
	Formula	C ₁₂ H ₁₁ N	
	FW	169.22	
5-Methyl-2-phenylpyridine			
CAT# CN610			
	CAS#	[27012-22-2]	
	Formula	C ₁₂ H ₁₁ N	
	FW	169.22	
2-Phenylpicotinic acid			
CAT# CN611			
	CAS#	[33421-39-5]	
	Formula	C ₁₂ H ₉ NO ₂	
	FW	199.21	
2-Phenylpyridine-4-carboxylic acid			
CAT# CN612			
	CAS#	[55240-51-2]	
	Formula	C ₁₂ H ₉ NO ₂	
	FW	199.21	
6-Phenylpyridine-3-carboxylic acid			
CAT# CN613			
	CAS#	[29051-44-3]	
	Formula	C ₁₂ H ₉ NO ₂	
	FW	199.21	
2,3-Diphenylpyridine			
CAT# CN614			
	CAS#	[33421-53-3]	
	Formula	C ₁₇ H ₁₃ N	
	FW	231.29	
2,4-Diphenylpyridine			
CAT# CN615			
	CAS#	[26274-35-1]	
	Formula	C ₁₇ H ₁₃ N	
	FW	231.29	
4-Phenyl-2-(p-tolyl)pyridine			
CAT# CN950			
	CAS#		
	Formula	C ₁₈ H ₁₅ N	
	FW	245.32	

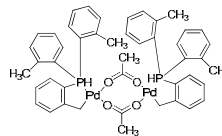
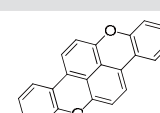
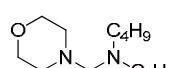
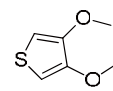
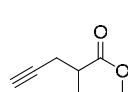
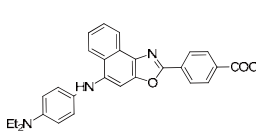
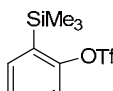
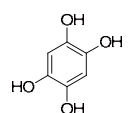
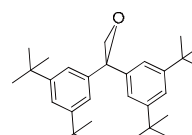
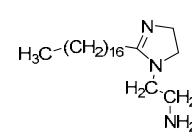
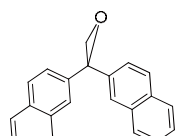
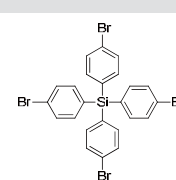
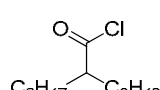
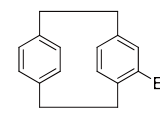
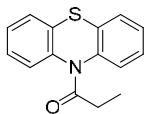
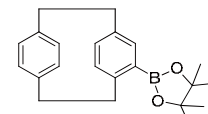
2-([1,1'-Biphenyl]-3-yl)-5-methylpyridine CAT# CN710  CAS# Formula FW C₁₈H₁₅N 245.32	2-(9,9-Dimethyl-9H-fluoren-2-yl)-quinoline CAT# CN623  CAS# Formula FW [889750-37-2] C₂₄H₁₉N 321.41
2,5-Diphenylpyridine CAT# CN616  CAS# Formula FW [15827-72-2] C₁₇H₁₃N 231.29	2,5-Diphenyloxazole CAT# CN624  CAS# Formula FW [92-71-7] C₁₅H₁₁NO 221.25
1-Phenylisoquinoline CAT# CN617  CAS# Formula FW [3297-72-1] C₁₅H₁₁N 205.25	2-Phenylbenzothiazole CAT# CN625  CAS# Formula FW [883-93-2] C₁₃H₉NS 211.28
2-Phenylquinoline CAT# CN618  CAS# Formula FW [612-96-4] C₁₅H₁₁N 205.25	2-Phenylquinoline acid CAT# CN626  CAS# Formula FW [132-60-5] C₁₆H₁₁NO₂ 249.26
3-Phenylisoquinoline CAT# CN619  CAS# Formula FW [37993-76-3] C₁₅H₁₁N 205.25	Methyl-2-phenyl-4-quinolinecarboxylate CAT# CN627  CAS# Formula FW [4546-48-9] C₁₇H₁₃NO₂ 263.29
3,4-Diphenylisoquinoline CAT# CN620  CAS# Formula FW [52839-45-9] C₂₁H₁₅N 281.35	2,3-Diphenylquinoxaline CAT# CN628  CAS# Formula FW [1684-14-6] C₂₀H₁₄N₂ 282.34
Benzo[h]quinoline CAT# CN621  CAS# Formula FW [230-27-3] C₁₃H₉N 179.22	2-(Benzo[b]thiophen-2-yl)pyridine CAT# CN629  CAS# Formula FW [38210-35-4] C₁₃H₉NS 211.28
1-(9,9-Dimethyl-9H-fluoren-2-yl)-isoquinoline CAT# CN622  CAS# Formula FW [435277-99-9] C₂₄H₁₉N 321.41	2-Methyldibenzo[f,h]quinoxaline CAT# CN630  CAS# Formula FW [536753-86-3] C₁₇H₁₂N₂ 244.29

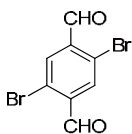
(4-(Pyridin-2-yl)phenyl)methane sodium sulfonate CAT# CN631  CAS# Formula FW $C_{12}H_{10}NO_3SNa$ 271.27	3-(Pyridin-2-yl)-2H-chromen-2-one CAT# CN638  CAS# Formula FW [837-97-8] $C_{14}H_9NO_2$ 223.23
5-Methyl-1-phenylisoquinoline CAT# CN632  CAS# Formula FW [700380-16-1] $C_{16}H_{13}N$ 219.28	Imidazo[1,2-f]phenanthridine CAT# CN640  CAS# Formula FW [37694-95-4] $C_{15}H_{10}N_2$ 218.25
2-(3,5-Dimethylphenyl)quinoline CAT# CN633  CAS# Formula FW [1056451-44-5] $C_{17}H_{15}N$ 233.31	1-(3,5-Diisopropylbiphenyl-4-yl)-2-phenyl-1H-imidazole CAT# CN642  CAS# Formula FW $C_{27}H_{28}N_2$ 380.52
1-(Biphenyl-4-yl)isoquinoline CAT# CN634  CAS# Formula FW [110746-63-9] $C_{21}H_{15}N$ 281.35	1-(2,4-Diisopropyl-2,5-dimethyl-1H-benzofuran-3-yl)-2-phenyl-1H-imidazole CAT# CN645  CAS# Formula FW $C_{27}H_{26}N_2O$ 394.51
1-(2,6-Dimethylphenyl)-2-phenyl-1H-imidazole CAT# CN635  CAS# Formula FW [914306-48-2] $C_{17}H_{16}N_2$ 248.32	2-Phenyl-6a,10a-dihydro-6H-oxazolo[4,5-c]carbazole CAT# CN650  CAS# Formula FW $C_{19}H_{14}N_2O$ 286.33
1-(2,6-Diisopropylphenyl)-2-phenyl-1H-imidazole CAT# CN636  CAS# Formula FW [914306-50-6] $C_{21}H_{24}N_2$ 304.43	
4-Methyl-2-phenylquinoline CAT# CN637  CAS# Formula FW [4789-76-8] $C_{16}H_{13}N$ 219.28	

Iridium(III) Chloride hydrate CAT# IR101	(4-(Diphenylamino)phenyl)methanol CAT# OC1005
 CAS# [14996-61-3] Formula IrCl₃·H₂O FW 316.59	 CAS# [25069-40-3] Formula C₁₉H₁₇NO FW 275.34
Tris(pentane-2,4-dionato-O,O')iridium CAT# IR102	1-Bromo-4-(1,2,2-trifluorovinyloxy)benzene CAT# OC1006
 CAS# [15635-87-7] Formula C₁₅H₂₁IrO₆ FW 489.54	 CAS# [184910-53-0] Formula C₈H₄BrF₃O FW 253.02
4-Methyl-1-phenyl-2(1H)-quinolone CAT# OC1001	lithium 6-(4,6-diamino-1,3,5-triazin-2-ylamino)hexanoate CAT# OC1007
 CAS# [2540-30-9] Formula C₁₆H₁₃NO FW 235.28	 CAS# [2540-30-9] Formula C₉H₁₅LiN₆O₂ FW 246.20
1-Chloroisoquinoline CAT# OC1002	Tetraphenyltetrabenzoporphyrin TPBP CAT# OC1008
 CAS# [19493-44-8] Formula C₉H₆ClN FW 163.60	 CAS# [80528-89-8] Formula C₈₀H₃₈N₄ FW 814.97
Isonicotinimidohydrazide CAT# OC1011	4-(2-Bromopyridin-4-yl)butanenitrile CAT# OC1009
 CAS# [19493-44-8] Formula C₆H₆N₄ FW 136.15	 CAS# [19493-44-8] Formula C₉H₆BrN₂ FW 225.09
Nicotinimidohydrazide CAT# OC1012	5-(1H-pyrrol-1-yl)pentanoic acid CAT# OC1010
 CAS# [19493-44-8] Formula C₆H₆N₄ FW 136.15	 CAS# [145511-35-9] Formula C₉H₁₃NO₂ FW 167.21
4,5,6,7-Tetrahydro-2H-isoindole CAT# OC1003	4-Bromo-3,3,4,4-tetrafluorobutan-1-ol CAT# OC1019
 CAS# [51649-35-5] Formula C₈H₁₁N FW 121.18	 CAS# [234443-21-1] Formula C₄H₅BrF₄O FW 224.98
3-(4,5,6,7-Tetrahydro-2H-isoindol-2-yl)propanoic acid CAT# OC1004	2,8-Dibromodibenzo[b,d]thiophene CAT# OC1026
 CAS# [19493-44-8] Formula C₁₁H₁₅NO₂ FW 193.24	 CAS# [19493-44-8] Formula C₁₂H₆Br₂S FW 342.05

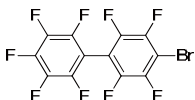
2,8-Dibromodibenzo[<i>b,d</i>]furan  CAS# Formula C ₁₂ H ₆ Br ₂ O FW 325.98	3-Carbazol-9-ylbenzhydrazide  CAS# Formula C ₁₉ H ₁₅ N ₃ O FW 301.34
2,4-Diisopropyldibenzo[<i>b,d</i>]furan-3-amine  CAS# [1332881-95-4] Formula C ₁₈ H ₂₁ NO FW 267.37	9H-naphtho[3,2,1-<i>k</i>]acridin-9-one  CAS# Formula C ₂₀ H ₁₁ NO FW 281.31
4,4',4''-Nitrilotribenzaldehyde  CAS# [119001-43-3] Formula C ₂₁ H ₁₅ NO ₃ FW 329.35	Tetrakis(triphenylphosphine)palladium(0)  CAS# [14221-01-3] Formula C ₇₂ H ₆₀ P ₄ Pd FW 1155.59
<i>N,N</i>-Diphenyl-<i>p</i>-phenylenediamine  CAS# [2350-01-8] Formula C ₁₈ H ₁₆ N ₂ FW 260.33	3-Methyl-1,2-phenylenediamine  CAS# [2687-25-4] Formula C ₇ H ₁₀ N ₂ FW 122.17
6-Methyl-2,3,4,9-tetrahydro-1<i>H</i>-carbazol-1-one  CAS# Formula C ₁₃ H ₁₃ NO FW 199.25	2-Acetyl-3-Methylpyridine  CAS# [85279-30-7] Formula C ₈ H ₉ NO FW 135.16
2-(9<i>H</i>-carbazol-9-yl)-4-methylphenol  CAS# [620987-78-2] Formula C ₁₉ H ₁₅ NO FW 273.33	Benzo[1,2-<i>b</i>:3,4-<i>b'</i>:5,6-<i>b''</i>]trithiophene  CAS# [29150-63-8] Formula C ₁₂ H ₆ S FW 246.37
2-(9<i>H</i>-carbazol-9-yl)phenol  CAS# Formula C ₁₈ H ₁₃ NO FW 259.30	2,5,8-Tris(trimethylstannyl)benzo[1,2-<i>b</i>:3,4-<i>b'</i>:5,6-<i>b''</i>]trithiophene  CAS# [1289556-30-4] Formula C ₂₁ H ₃₀ S ₃ Sn ₃ FW 734.79

6-Methyl-1,2,3,5-tetrahydros-indacene  CAS# [202667-45-6] Formula C ₁₃ H ₁₄ FW 170.25	2,4-Diphenyl-6-(3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)-1,3,5-triazine  CAS# Formula C ₂₇ H ₂₆ BN ₃ O ₂ FW 435.33
2,3-Dihydro-1H-cyclopenta[b]naphthalen-1-one  CAS# [109341-49-3] Formula C ₁₃ H ₁₀ O FW 182.22	Tetrakis(4-bromophenyl)methane  CAS# Formula C ₂₅ H ₁₆ Br ₄ FW 636.01
2,3-Dihydrocyclopenta[b]indol-1(4H)-one  CAS# [61364-20-3] Formula C ₁₁ H ₉ NO FW 171.20	4,4',4'',4'''-Methanetetrayltetrakis(benzene-4,1-diyl)tetraboronic acid  CAS# Formula C ₂₅ H ₂₄ B ₄ O ₈ FW 495.70
Naphthalen-1-ylphosphonic acid  CAS# Formula C ₁₀ H ₉ O ₃ P FW 208.15	1,1,2,2-Tetrakis(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)ethene  CAS# Formula C ₅₀ H ₆₄ B ₄ O ₈ FW 836.28
Anthracen-9-ylphosphonic acid  CAS# Formula C ₁₄ H ₁₁ O ₃ P FW 258.21	2,6-Dibromo-1,5-difluoronaphthalene  CAS# Formula C ₁₀ H ₄ Br ₂ F ₂ FW 321.94
Diethyl 12-(anthracen-9-yl)dodecylphosphonate  CAS# Formula C ₃₀ H ₄₃ O ₃ P FW 482.63	Methyl 4-(5'-bromo-[2,2'-bithiophen]-5-yl)benzoate  CAS# Formula C ₁₈ H ₁₁ BrO ₂ S ₂ FW 379.29
2-Methyltriphenylene  CAS# Formula C ₁₉ H ₁₄ FW 242.31	Methyl 4-ethynylbenzoate  CAS# [3034-86-4] Formula C ₁₀ H ₈ O ₂ FW 160.17
2-(3-Chlorophenyl)-4,6-diphenyl-1,3,5-triazine  CAS# Formula C ₂₁ H ₁₄ ClN ₃ FW 343.81	

Trans-Bis(acetato)bis[o-(di-o-tolylphosphino)benzyl]dipalladium(II) CAT# OC1098  CAS# [172418-32-5] Formula $C_{46}H_{46}O_4P_2Pd_2$ FW 937.64	Xantheno[2,1,9-mna]xanthene CAT# OC1213  CAS# Formula $C_{22}H_{12}O_2$ FW 308.33
N-butyl-N-(morpholinomethyl)butan-1-amine CAT# OC1155  CAS# [67215-50-3] Formula $C_{13}H_{28}N_2O$ FW 228.37	3,4-Dimethoxythiophene CAT# OC1215  CAS# [51792-34-8] Formula $C_6H_8O_2S$ FW 144.19
3-(Prop-2-ynyl)tetrahydro-2H-pyran-2-one CAT# OC1157  CAS# Formula $C_8H_{10}O_2$ FW 138.16	4-(5-(4-(Diethylamino)phenylamino)naphtho[1,2-d]oxazol-2-yl)benzoic acid CAT# OC1250  CAS# Formula $C_{12}H_8Br_2O$ FW 325.98
2-(Trimethylsilyl)phenyl trifluoromethanesulfonate CAT# OC1180  CAS# Formula $C_{10}H_{13}F_3O_3Si$ FW 298.35	Benzene-1,2,4,5-tetraol CAT# OC3100  CAS# Formula $C_6H_6O_4$ FW 142.11
2,2-Bis(3,5-di-tert-butylphenyl)oxirane CAT# OC1190  CAS# Formula $C_{30}H_{44}O$ FW 420.67	2-(2-Heptadecyl-4,5-dihydro-1H-imidazol-1-yl)ethanamine CAT# OC1310  CAS# Formula $C_{22}H_{45}N_3$ FW 351.61
2,2-di(naphthalen-2-yl)oxirane CAT# OC1193  CAS# Formula $C_{22}H_{16}O$ FW 296.36	Tetrakis(4-bromophenyl)silane CAT# OC1800  CAS# Formula $C_{24}H_{16}Br_4Si$ FW 652.09
2-Hexyldecanoyl chloride CAT# OC1200  CAS# Formula $C_{18}H_{31}ClO$ FW 274.87	4-Bromo(2,2)paracyclophane CAT# OC1450  CAS# Formula $C_{16}H_{15}Br$ FW 287.19
1-(10H-phenothiazin-10-yl)propan-1-one CAT# OC1210  CAS# Formula $C_{15}H_{13}NOS$ FW 255.33	4-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)paracyclophane CAT# OC1451  CAS# Formula $C_{22}H_{27}BO_2$ FW 334.26

2,5-Dibromoterephthalaldehyde**CAT# OC1700**

CAS# [63525-48-4]
Formula $C_8H_4Br_2O_2$
FW 291.92

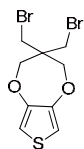
4-Bromo-2,2',3,3',4',5,5',6,6'-nonafluoro-1,1'-biphenyl**CAT# OC1505**

CAS# [1038-65-9]
Formula $C_{12}BrF_9$
FW 395.02

Electrochromic Materials

3,3-Bis(bromomethyl)-3,4-dihydro-2H-thieno[3,4-b][1,4]dioxepine

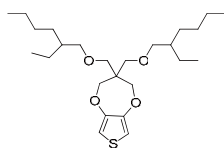
CAT# EC001



CAS# [701209-98-5]
 Formula $C_9H_{10}Br_2O_2S$
 FW 342.05

3,3-Bis(((2-ethylhexyl)oxy)methyl)-3,4-dihydro-2H-thieno[3,4-b][1,4]dioxepine

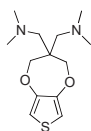
CAT# EC002



CAS# [634591-75-6]
 Formula $C_{25}H_{44}O_4S$
 FW 440.68

1,1'-(3,4-Dihydro-2H-thieno[3,4-b][1,4]dioxepine-3,3-diyl)bis(*N,N*-dimethylmethanamine)

CAT# EC003



CAS#
 Formula $C_{13}H_{22}N_2O_2S$
 FW 270.39

Chemical Indices

CAS Number Index

CAS# or CAS RN represents Chemical Abstracts Service Registry Number, which is uniquely assigned to a specific chemical by the American Chemical Society and indexed in Chemical Abstracts published by Chemical Abstracts Service in the US. CAS numbers are used worldwide for accurate identification and quick search of chemicals/materials.

Catalog Number Index

The format of our catalog number of a chemical does not follow a general rule. However, the alphanumeric codes start always with at least two letters.

Both indices are in ascending order.

CAS Number Index

CAS #	Page	CAS #	Page	CAS #	Page
66-71-7	57	3002-81-1	58	15862-18-7	57
92-71-7	62	3034-86-4	66	16152-10-6	9
132-60-5	62	3096-56-8	25	16433-88-8	24
147-14-8	8	3141-26-2	39	17347-32-9	37
217-19-6	49	3241-20-1	44	18511-69-8	55
230-27-3	62	3248-05-3	57	18511-71-2	55
241-13-4	36	3297-72-1	62	18628-07-4	19
251-41-2	37	3475-21-6	61	18853-42-4	39
389-58-2	20	3593-75-7	36	18959-30-3	47
607-57-8	24	3652-90-2	18	18992-65-9	18
612-96-4	62	3922-40-5	58	19073-14-4	45
624-08-8	44	3958-03-0	37	19493-44-8	64
632-15-5	40	4199-88-6	57	21210-90-2	37
633-70-5	47	4199-89-7	57	22291-04-9	27
837-97-8	63	4282-29-5	40	23259-98-5	38
883-93-2	62	4385-62-0	61	25023-01-2	25
1008-89-5	61	4467-06-5	61	25069-38-9	45
1038-65-9	68	4467-07-6	61	25069-40-3	65
1081-34-1	40	4546-48-9	62	25121-87-3	37
1133-80-8	24	4569-45-3	24	25796-77-4	20
1134-35-6	55	4733-39-5	59	25834-16-6	47
1518-16-7	9	4789-76-8	63	26201-32-1	8
1660-93-1	58	4891-44-5	38	26274-35-1	61
1662-01-7	58	5333-42-6	44	27012-22-2	61
1684-14-6	62	5394-23-0	58	27318-90-7	58
1689-64-1	25	5660-45-7	41	28320-31-2	25
1714-29-0	45	6153-92-0	55	28320-32-3	25
1723-27-9	37	6165-68-0	43	29051-44-3	61
1748-89-6	55	6813-38-3	55	29150-63-8	65
1762-41-0	55	6825-20-3	18	29176-55-4	58
1762-42-1	55	10273-90-2	61	29261-33-4	9
1762-46-5	55	10495-73-5	57	29608-87-5	48
1770-82-7	46	14162-94-8	55	31301-28-7	57
1802-30-8	56	14162-95-9	55	32281-36-0	13
1891-14-1	57	14221-01-3	65	33421-39-5	61
1970-80-5	56	14348-75-5	25	33421-53-3	61
2085-33-8	9	14544-47-9	7	36309-88-3	10
2350-01-8	65	14916-87-1	12	36530-06-0	9
2425-77-6	44	14996-61-3	64	37500-95-1	19
2540-30-9	64	15155-41-6	31	37694-95-4	63
2620-76-0	44	15304-57-1	9	37882-75-0	37
2687-25-4	65	15635-87-7	64	37993-76-3	62
3002-78-6	58	15827-72-2	62	38210-35-4	62

CAS Number Index

CAS #	Page	CAS #	Page	CAS #	Page
39069-02-8	59	75618-99-4	59	133750-15-9	39
40000-20-2	57	77496-07-2	46	133953-35-2	48
40501-41-5	46	80528-89-8	64	134457-14-0	57
40985-58-8	37	81020-78-2	39	136630-39-2	18
46181-30-0	61	81998-04-1	57	136630-36-9	46
50525-27-4	10	81998-05-2	56	136902-53-9	49
50670-76-3	46	83204-68-6	27	138372-67-5	10
51649-35-5	64	85279-30-7	65	139092-78-7	6
51751-44-1	40	85531-02-8	44	139255-17-7	7
51792-34-8	67	86134-26-1	38	141029-75-6	24
52297-43-0	44	88949-34-2	24	142646-58-0	56
52839-45-9	62	89972-76-9	60	143367-56-0	40
53744-42-6	58	91371-12-9	46	143418-49-9	43
54258-41-2	58	91891-74-6	49	145511-35-9	64
54663-78-4	38	92149-07-0	59	146162-54-1	10
54987-01-8	40	92220-65-0	11	148044-07-9	6
55240-51-2	61	94928-86-6	3	148546-82-1	43
56100-19-7	55	95950-20-2	59	149005-33-4	3
56100-20-0	56	96710-07-5	58	149817-62-9	60
56290-06-3	58	97333-46-5	10	150405-69-9	9
58328-31-7	6	97802-08-9	58	153312-86-8	20
58473-78-2	8	100125-12-0	58	156545-07-2	43
58775-05-6	24	103946-54-9	56	158937-25-8	43
59333-62-9	29	105598-27-4	9	160032-41-7	38
60804-74-2	10	108714-73-4	25	161583-75-1	60
61364-20-3	66	109341-49-3	66	162612-08-0	57
62162-97-4	48	110590-81-3	29	163628-20-4	60
62281-05-4	44	110746-63-9	63	165190-76-1	32
62281-06-5	44	112642-69-0	42	165617-59-4	34
62281-07-6	45	114527-28-5	55	168267-41-2	43
63224-42-0	44	116971-11-0	39	171408-76-7	26
63525-48-4	68	117901-97-0	29	171408-84-7	27
65016-62-8	39	119001-43-3	65	172100-44-6	48
65115-91-5	59	121134-38-1	38	172418-32-5	67
65181-78-4	8	121219-16-7	43	174397-53-4	57
66127-01-3	58	121848-75-7	45	175922-79-9	37
67061-69-2	36	123148-15-2	10	176220-38-5	57
67061-73-8	36	123847-85-8	8	178931-63-0	41
67215-50-3	67	124796-79-8	37	180729-91-3	48
67665-47-8	27	125143-53-5	40	182631-76-1	57
69620-20-8	44	127406-56-8	61	184910-53-0	64
71071-46-0	55	128055-74-3	27	185350-30-5	41
71879-24-8	56	131660-39-4	8	185690-41-9	6

CAS Number Index

CAS #	Page	CAS #	Page	CAS #	Page
185691-91-2	41	365547-20-2	20	636588-79-9	20
186259-63-2	27	365547-21-3	20	667935-20-8	5
188690-66-6	30	376367-93-0	3	673474-73-2	26
189367-54-2	25	376367-95-2	3	673474-74-3	13
190723-14-9	35	387859-70-3	3	676542-82-8	59
192198-85-9	9	391604-55-0	61	700380-16-1	63
194800-58-3	60	392662-65-6	37	701209-98-5	69
196207-58-6	26	405165-14-2	39	711026-06-1	18
198964-46-4	25	405289-74-9	5	713125-22-5	26
201802-29-1	7	406726-92-9	18	726169-75-1	18
202667-45-6	66	435277-99-9	62	753491-32-6	60
207739-72-8	12	435293-93-9	4	761416-46-0	33
207742-50-5	40	435294-03-4	4	773881-43-9	35
208124-25-8	43	439942-93-5	26	773883-32-2	59
210705-84-3	39	444579-39-9	33	777079-55-7	20
211737-37-0	40	444579-42-4	38	796847-41-1	60
215611-93-1	9	444796-09-2	19	800394-58-5	3
216018-58-5	60	447450-80-8	56	831225-81-1	55
220694-90-6	9	457931-23-6	33	836671-27-3	9
222554-30-5	39	459133-59-6	5	850583-75-4	20
234443-21-1	64	469912-82-1	37	850881-09-3	39
238756-91-7	34	474688-76-1	44	850918-68-2	9
250597-29-6	25	474918-32-6	26	851042-10-9	26
250635-23-5	60	475460-77-6	7	851786-15-7	29
254755-24-3	25	502764-57-0	36	852138-89-7	45
258527-25-2	20	503864-02-6	59	852138-93-3	46
273381-61-6	8	528570-55-0	20	852139-02-7	46
275793-98-1	8	530402-77-8	48	854938-56-0	8
286438-45-7	26	534591-72-5	44	854952-58-2	45
288071-87-4	32	536753-86-3	62	865435-20-7	9
299962-88-2	28	536755-34-7	5	870078-13-0	57
300700-19-0	7	550378-78-4	5	872856-45-6	5
301206-84-8	51	562824-27-5	11	873792-52-0	45
333432-27-2	31	565186-12-1	39	881838-94-4	36
337526-85-9	3	566939-56-8	35	889750-37-2	62
337526-87-1	4	566939-58-0	36	890704-00-4	42
337526-88-2	4	583050-70-8	37	890704-02-6	42
337526-98-4	4	620624-96-6	26	891182-24-4	30
342638-54-4	6	620987-78-2	65	909019-78-9	29
343978-79-0	5	623558-68-9	47	909122-50-5	43
344796-05-0	5	630067-06-0	59	909709-42-8	43
359014-71-4	3	630067-12-8	59	909712-63-6	6
359017-65-5	13	634591-75-6	69	910788-24-8	36

CAS Number Index

CAS #	Page	CAS #	Page	CAS #	Page
911142-72-8	4	1089687-05-7	30	1260685-63-9	23
912922-58-8	46	1098102-93-2	34	1262241-50-8	36
914306-48-2	63	1098102-94-3	14	1262727-09-2	34
914306-50-6	63	1098102-95-4	14	1263379-85-6	47
914394-12-0	3	1100243-35-3	28	1267540-02-2	23
914394-25-5	3	1100761-34-9	34	1268491-06-0	18
917874-25-0	56	1147124-21-7	46	1269004-46-7	22
920504-00-3	20	1147124-23-9	46	1271439-08-7	14
921205-02-9	8	1152418-56-8	5	1272505-63-1	3
921205-03-0	8	1160106-12-6	30	1283099-24-0	42
925425-96-3	8	1160823-76-6	34	1283598-36-6	33
934365-16-9	33	1160823-77-7	13	1289556-30-4	65
934557-66-1	27	1160823-78-8	13	1293389-28-2	32
942615-32-9	25	1171974-28-9	32	1293389-32-8	33
952514-79-3	43	1173886-71-9	4	1294515-75-5	14
954374-43-7	28	1179993-72-6	33	1295502-20-3	31
955959-84-9	48	1185885-86-2	21	1295502-52-1	31
955964-73-5	18	1192352-08-1	31	1295502-53-2	32
958261-50-2	12	1192352-10-5	33	1296131-04-8	24
958261-51-3	18	1194605-72-5	35	1304773-89-4	33
958293-23-7	30	1194605-76-9	35	1307899-54-2	17
960509-83-5	42	1198396-29-0	25	1308671-90-0	21
1000623-95-9	22	1198843-27-4	43	1309764-86-0	35
1000623-98-2	23	1201921-81-4	20	1311378-95-6	6
1001330-07-9	60	1202249-72-6	35	1312588-15-0	24
1003562-42-2	4	1207627-85-7	30	1314801-34-7	44
1004524-17-7	40	1215007-80-9	59	1314801-35-8	44
1007347-63-8	40	1219501-17-3	29	1315605-26-5	27
1015423-45-6	40	1221254-05-2	17	1320201-19-1	14
1024594-86-2	34	1223559-98-5	40	1320201-22-6	15
1025451-57-3	32	1224430-28-7	24	1321590-78-6	14
1028647-93-9	19	1224430-39-0	39	1327334-59-7	35
1040390-19-9	48	1224709-68-5	22	1329054-41-2	25
1040858-84-1	50	1226782-13-3	13	1331833-06-7	3
1044598-80-2	23	1226860-68-9	6	1332881-95-4	65
1046864-84-9	20	1231160-83-0	36	1334686-71-3	33
1049034-71-0	49	1237479-38-7	35	1335015-92-3	21
1056451-44-5	63	1239327-73-1	27	1336893-15-2	14
1056874-46-4	5	1245924-75-7	34	1342311-48-1	41
1057401-13-4	21	1246679-11-7	24	1346688-54-7	24
1071224-34-4	31	1252555-61-5	49	1347736-74-6	32
1088205-02-0	28	1254062-39-9	43	1352642-37-5	15
1088205-04-2	28	1254353-37-1	31	1352743-83-9	35

CAS Number Index

CAS #	Page
1354631-87-0	22
1356240-65-7	29
1392422-47-7	22
1402460-16-5	17
1402460-83-6	32
1432791-00-8	32
1443120-32-8	16
1446476-90-9	35
1459168-68-3	28
1473452-21-9	44
1613705-06-8	21
1614253-96-1	28
1619967-09-7	40
1625696-07-2	14
1628427-36-0	34

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
2IR601	11	BIPY442	56	CN637	63
2IR602	11	BIPY443	56	CN638	63
2IR604	11	BIPY444	56	CN640	63
2IR617	11	BIPY513	56	CN642	63
2IR618	11	BIPY515	56	CN645	63
2IR621	11	BIPY516	56	CN650	63
2IR624	11	BIPY517	56	CN710	62
2IR625	11	BIPY518	57	CN950	61
2IR628	11	BIPY519	57	EC001	69
2IR629	11	BIPY520	57	EC002	69
2IR632	12	BIPY521	57	EC003	69
2IR633	12	BIPY525	57	EI003	9
BA025	43	BIPY526	57	ET001	9
BA030	43	BIPY527	57	ET002	9
BA050	7	BIPY528	57	ET003	9
BA051	7	BIPY529	57	ET004	9
BA052	7	BIPY530	57	ET005	9
BA060	7	CN601	61	ET006	9
BA105	43	CN602	61	ET007	9
BA106	43	CN603	61	ET008	10
BA107	43	CN604	61	ET010	10
BA108	43	CN605	61	FD001	7
BA111	43	CN606	61	FH001	7
BA115	43	CN607	61	HT005	7
BA118	43	CN608	61	HT006	8
BA122	43	CN609	61	HT007	8
BIPY002	55	CN610	61	HT008	8
BIPY003	55	CN611	61	HT010	8
BIPY015	55	CN612	61	HT012	8
BIPY016	55	CN613	61	HT015	8
BIPY017	55	CN614	61	HT016	8
BIPY018	55	CN615	61	HT017	44
BIPY019	55	CN616	62	HT019	44
BIPY026	55	CN617	62	HT020	8
BIPY029	55	CN618	62	HT035	7
BIPY034	55	CN619	62	HI001	8
BIPY037	55	CN620	62	HI002	8
BIPY050	55	CN621	62	HI003	9
BIPY051	55	CN622	62	HI004	9
BIPY400	55	CN623	62	HI005	9
BIPY401	55	CN624	62	HI006	9
BIPY402	55	CN625	62	HI007	9
BIPY403	56	CN626	62	HI010	9
BIPY404	56	CN627	62	IN1001	18
BIPY405	56	CN628	62	IN1002	19
BIPY406	56	CN629	62	IN1003	18
BIPY412	55	CN630	62	IN1004	19
BIPY413	56	CN631	63	IN1005	8
BIPY415	56	CN632	63	IN1006	31
BIPY420	56	CN633	63	IN1007	34
BIPY428	56	CN634	63	IN1008	18
BIPY429	56	CN635	63	IN1009	18
BIPY430	56	CN636	63	IN1010	20

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
IN1011	20	IN1065	45	IN1119	36
IN1012	26	IN1066	43	IN1120	37
IN1013	40	IN1067	43	IN1121	40
IN1014	34	IN1068	36	IN1122	40
IN1015	40	IN1069	32	IN1123	25
IN1016	13	IN1070	37	IN1124	26
IN1017	34	IN1071	27	IN1125	26
IN1018	37	IN1072	27	IN1126	25
IN1019	34	IN1073	28	IN1127	38
IN1020	27	IN1074	28	IN1128	18
IN1021	27	IN1075	29	IN1129	18
IN1022	28	IN1076	28	IN1130	14
IN1023	28	IN1077	45	IN1131	14
IN1024	40	IN1078	27	IN1132	14
IN1025	40	IN1079	32	IN1133	14
IN1026	42	IN1080	45	IN1134	14
IN1027	42	IN1081	45	IN1135	26
IN1028	29	IN1082	45	IN1138	18
IN1029	18	IN1083	45	IN1139	19
IN1030	44	IN1084	46	IN1140	14
IN1031	44	IN1085	47	IN1141	14
IN1032	42	IN1086	46	IN1142	14
IN1033	42	IN1087	37	IN1146	14
IN1034	48	IN1088	46	IN1149	14
IN1035	48	IN1090	35	IN1150	15
IN1036	30	IN1091	35	IN1151	15
IN1037	31	IN1092	32	IN1152	15
IN1038	31	IN1093	35	IN1154	39
IN1039	31	IN1094	35	IN1158	45
IN1040	24	IN1095	36	IN1160	14
IN1041	24	IN1096	36	IN1161	15
IN1042	42	IN1097	32	IN1162	15
IN1043	44	IN1098	32	IN1164	28
IN1044	45	IN1099	37	IN1165	16
IN1045	38	IN1100	37	IN1167	16
IN1046	30	IN1101	37	IN1168	16
IN1047	43	IN1102	37	IN1169	17
IN1048	18	IN1103	37	IN1170	15
IN1049	44	IN1104	37	IN1171	15
IN1050	44	IN1105	37	IN1172	15
IN1051	44	IN1106	37	IN1173	16
IN1052	35	IN1107	37	IN1174	16
IN1053	36	IN1108	37	IN1175	16
IN1054	35	IN1109	37	IN1176	17
IN1055	13	IN1110	37	IN1177	18
IN1056	13	IN1111	38	IN1178	17
IN1057	44	IN1112	39	IN1179	17
IN1058	45	IN1113	39	IN1180	17
IN1060	20	IN1114	39	IN1181	17
IN1061	35	IN1115	36	IN1182	17
IN1062	35	IN1116	36	IN1185	17
IN1063	35	IN1117	36	IN1186	15
IN1064	40	IN1118	36	IN1187	14

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
IN1188	17	IN1242	20	IN1322	20
IN1190	17	IN1243	33	IN1323	20
IN1191	17	IN1244	33	IN1324	24
IN1192	18	IN1245	33	IN1325	20
IN1193	13	IN1246	33	IN1326	21
IN1194	35	IN1247	28	IN1327	22
IN1195	32	IN1248	28	IN1328	22
IN1196	32	IN1249	33	IN1329	22
IN1197	33	IN1250	20	IN1330	23
IN1198	31	IN1251	30	IN1331	24
IN1199	33	IN1252	20	IN1332	23
IN1200	41	IN1253	30	IN1333	23
IN1201	34	IN1254	30	IN1334	22
IN1202	31	IN1256	30	IN1335	22
IN1203	34	IN1257	30	IN1336	23
IN1204	40	IN1258	18	IN1337	23
IN1205	41	IN1259	19	IN1338	21
IN1206	41	IN1260	27	IN1339	21
IN1207	40	IN1261	28	IN1340	21
IN1208	36	IN1262	28	IN1341	24
IN1209	28	IN1264	27	IN1342	24
IN1210	28	IN1265	28	IN1343	22
IN1211	29	IN1267	50	IN1344	22
IN1212	29	IN1268	27	IN1345	22
IN1213	29	IN1269	27	IN1346	21
IN1214	29	IN1270	20	IN1347	21
IN1215	29	IN1274	28	IN1348	33
IN1216	25	IN1279	29	IN1349	34
IN1217	26	IN1280	29	IN1350	34
IN1218	25	IN1281	29	IN1351	44
IN1219	25	IN1283	29	IN1352	44
IN1220	25	IN1284	29	IN1353	46
IN1221	25	IN1285	29	IN1354	46
IN1222	24	IN1289	29	IN1355	21
IN1223	25	IN1290	25	IN1356	21
IN1224	24	IN1291	25	IN1357	21
IN1225	24	IN1295	25	IN1358	37
IN1226	25	IN1297	40	IN1359	46
IN1227	25	IN1299	27	IN1360	46
IN1228	25	IN1301	8	IN1361	47
IN1229	24	IN1303	8	IN1362	46
IN1230	25	IN1304	40	IN1363	47
IN1231	25	IN1305	24	IN1364	47
IN1232	26	IN1307	24	IN1365	47
IN1233	26	IN1308	32	IN1366	47
IN1234	26	IN1310	41	IN1367	46
IN1235	26	IN1312	39	IN1368	47
IN1236	27	IN1313	49	IN1369	47
IN1237	27	IN1314	49	IN1370	43
IN1238	27	IN1315	42	IN1372	43
IN1239	27	IN1316	49	IN1374	23
IN1240	20	IN1320	21	IN1375	23
IN1241	24	IN1321	21	IN1376	22

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
IN1377	45	IN1459	41	IN1539	34
IN1380	45	IN1460	30	IN1550	27
IN1381	44	IN1461	49	IN1560	32
IN1382	44	IN1463	49	IN1561	32
IN1383	44	IN1464	49	IN1562	32
IN1384	22	IN1465	49	IN1565	33
IN1385	42	IN1466	49	IN1566	33
IN1386	42	IN1467	49	IN1567	32
IN1387	42	IN1469	49	IN1568	33
IN1388	43	IN1470	38	IN1569	32
IN1390	22	IN1471	38	IN1570	34
IN1391	22	IN1472	39	IN1586	36
IN1392	42	IN1473	39	IN1598	36
IN1393	42	IN1474	39	IN1600	32
IN1394	42	IN1475	39	IN1605	33
IN1395	21	IN1476	41	IN1611	35
IN1396	23	IN1477	38	IN1613	35
IN1400	48	IN1478	39	IN1614	36
IN1401	48	IN1479	39	IN1615	36
IN1402	48	IN1480	39	IN1616	35
IN1404	48	IN1481	38	IN1617	36
IN1405	48	IN1482	40	IN1620	34
IN1406	47	IN1483	45	IN1625	34
IN1407	48	IN1484	46	IN1645	42
IN1408	47	IN1485	46	IN1646	42
IN1410	49	IN1486	46	IN1670	45
IN1412	48	IN1487	46	IN1671	38
IN1415	48	IN1488	40	IN1680	32
IN1421	47	IN1489	40	IN1683	49
IN1423	47	IN1490	38	IN1684	49
IN1424	30	IN1491	38	IN1688	46
IN1425	30	IN1492	38	IN1690	35
IN1426	30	IN1493	39	IN1701	31
IN1428	30	IN1496	38	IN1715	46
IN1429	33	IN1498	41	IN1725	50
IN1430	31	IN1499	41	IN1730	23
IN1431	31	IN1500	41	IN1731	23
IN1432	47	IN1502	38	IN1732	24
IN1433	47	IN1504	41	IN1738	23
IN1435	48	IN1505	41	IN1750	26
IN1436	48	IN1507	30	IN1753	26
IN1440	48	IN1508	31	IN1757	26
IN1446	31	IN1509	31	IN1759	26
IN1449	46	IN1510	31	IN1760	17
IN1450	41	IN1511	31	IN1770	15
IN1451	44	IN1514	41	IN1773	16
IN1452	44	IN1515	40	IN1774	16
IN1453	30	IN1516	40	IN1775	16
IN1454	30	IN1520	41	IN1777	16
IN1455	41	IN1522	49	IN1785	26
IN1456	19	IN1525	50	IN1792	15
IN1457	41	IN1535	34	IN1800	24
IN1458	20	IN1538	34	IN1820	19

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
IN1970	38	IR713	4	OC1054	65
IN1971	38	IR721	4	OC1055	65
IN1972	38	IR728	4	OC1056	65
IN1973	39	IR729	4	OC1058	19
IN1975	39	IR733	4	OC1059	19
IN1978	39	IR800	4	OC1060	19
IR068629629CI	11	IR801	5	OC1061	19
IR101	64	IR802	5	OC1062	19
IR102	64	IR803	5	OC1063	19
IR401601601CI	53	IR804	5	OC1064	19
IR402601601CI	53	IR805	3	OC1065	19
IR402604604CI	54	IR809	5	OC1068	19
IR430601601CI	54	IR810	5	OC1070	66
IR402617617CI	54	IR811	5	OC1075	48
IR402618618CI	54	IR812	3	OC1082	65
IR402621621CI	54	IR813	5	OC1090	18
IR402624624CI	54	IR816	3	OC1092	66
IR402625625CI	54	IR817	3	OC1098	67
IR403601601PF6	53	IR819	5	OC1100	65
IR406604604PF6	54	IR820	3	OC1115	20
IR406625625CI	54	IR840	3	OC1116	13
IR504	3	IR950	5	OC1120	65
IR505	3	IR951	5	OC1130	18
IR506	3	IR952	5	OC1131	18
IR507	3	OC1001	64	OC1150	65
IR508	4	OC1002	64	OC1155	67
IR509	3	OC1003	64	OC1157	67
IR510	4	OC1004	64	OC1160	65
IR520625625CI	54	OC1005	64	OC1161	65
IR601601H2O	52	OC1006	64	OC1165	66
IR601601MECN	51	OC1007	64	OC1170	66
IR601601092Na	51	OC1008	64	OC1171	66
IR604604H2O	52	OC1009	64	OC1172	66
IR604604MECN	52	OC1010	64	OC1174	66
IR604604092Na	51	OC1011	64	OC1175	66
IR606	3	OC1012	64	OC1180	67
IR607	3	OC1015	20	OC1185	66
IR608	4	OC1016	13	OC1190	67
IR609	4	OC1017	20	OC1193	67
IR610	4	OC1018	36	OC1200	67
IR615	4	OC1019	64	OC1210	67
IR617617H2O	52	OC1022	44	OC1213	67
IR617617MECN	51	OC1023	45	OC1215	67
IR617617092Na	51	OC1024	45	OC1250	67
IR618618MECN	51	OC1025	48	OC1310	67
IR618618092Na	51	OC1026	64	OC1324	66
IR621621MECN	52	OC1027	65	OC1325	66
IR621621092Na	51	OC1028	48	OC1409	66
IR624624MECN	51	OC1030	48	OC1410	66
IR625625MECN	51	OC1035	65	OC1420	66
IR625625092Na	51	OC1040	65	OC1450	67
IR628628MECN	52	OC1045	65	OC1451	67
IR711	4	OC1050	65	OC1460	66

Catalog Number Index

CAT #	Page	CAT #	Page	CAT #	Page
OC1505	68	PHEN408	59	Sunamer405	13
OC1700	68	PHEN410	59	Sunamer406	13
OC1800	67	PHEN412	59	Sunamer502	12
OC3100	67	PHEN413	59	Sunamer601	13
OE001	12	PHEN414	59	Sunamer701	13
OP001	12	PHEN415	59	Sunamer901	12
OP002	12	PHEN416	59	Sunamer902	12
OP003	12	PHEN417	59	TEPY003	60
PH001	5	PHEN418	59	TEPY004	60
PH002	6	PHEN419	59	TEPY005	60
PH003	6	PHEN420	59	TEPY006	60
PH004	6	PHEN421	59	TEPY020	60
PH005	6	PHEN422	60		
PH007	6	PHEN423	60		
PH010	6	PHEN424	60		
PH015	6	PHEN425	60		
PH017	6	PHEN426	60		
PH018	6	PHEN427	60		
PH019	6	PHEN428	60		
PH032	6	PHEN430	60		
PH035	6	PHEN450	60		
PH038	7	RU001001001CI	10		
PH039	7	RU001001111CI	10		
PH040	7	RU001001001PF6	10		
PH042	7	RU001001442CI	10		
PH044	7	RU001029029PF6	10		
PHEN068	57	RU029029029CI	10		
PHEN072	57	RU111029029CI	10		
PHEN073	57	RU030030030CI	11		
PHEN074	57	RU037037037PF6	10		
PHEN079	57	RU082001001CI	53		
PHEN080	57	RU082001001PF6	53		
PHEN081	57	RU088088088CI	10		
PHEN082	58	RU088088088PF6	10		
PHEN083	58	RU092092092Na	51		
PHEN087	58	RU401001001CI	52		
PHEN088	58	RU401001001PF6	52		
PHEN089	58	RU402001001PF6	52		
PHEN091	58	RU402092092Na	52		
PHEN092	58	RU403001001CI	53		
PHEN093	58	RU403001001PF6	53		
PHEN094	58	RU403092092Na	53		
PHEN099	58	RU408092092Na	53		
PHEN100	58	RU422092092Na	53		
PHEN110	58	RU430001001CI	52		
PHEN111	58	RU520001001CI	52		
PHEN401	58	Sunamer101	12		
PHEN402	58	Sunamer102	12		
PHEN403	58	Sunamer103	12		
PHEN404	58	Sunamer104	13		
PHEN405	59	Sunamer105	13		
PHEN406	59	Sunamer301	13		
PHEN407	59	Sunamer401	13		

¹H and ¹³C NMR Chemical Shifts of Common Laboratory Solvents

	proton/carbon	deuterated solvent											
		CDCl ₃		DMSO- <i>d</i> ₆		CD ₃ CN		CD ₃ OD		(CD ₃) ₂ CO		D ₂ O	
		¹ H	¹³ C	¹ H	¹³ C	¹ H	¹³ C	¹ H	¹³ C	¹ H	¹³ C	¹ H	¹³ C
solvent peak		7.26	77.16	2.5	39.52	1.94	1.32 118.26	3.31	49	2.05	29.84 206.26	4.79	---
H ₂ O		1.56	---	3.33	---	2.13	---	4.87	---	2.84	---	---	---
acetone	CO	---	207.1	---	206.3	---	207.4	---	209.7	---	205.9	---	215.9
	CH ₃ (s)	2.17	30.92	2.09	30.56	2.08	30.91	2.15	30.67	2.09	30.6	2.22	30.89
acetonitrile	CN	---	116.4	---	117.9	---	118.3	---	118.1	---	117.6	---	119.7
	CH ₃ (s)	2.1	1.89	2.07	1.03	1.96	1.79	2.03	0.85	2.05	1.12	2.06	1.47
chloroform	CH(s)	7.26	77.36	8.32	79.16	7.58	79.17	7.9	79.44	8.02	79.19	---	---
dichloromethane	CH ₂ (s)	5.3	53.52	5.76	54.84	5.44	55.32	5.49	54.78	5.63	54.95	---	---
dimethyl sulfoxide	CH ₃ (s)	2.62	40.76	2.54	40.45	2.5	41.31	2.65	40.45	2.52	41.23	2.71	39.39
ethanol	CH ₃ (t)	1.25	18.41	1.06	18.51	1.12	18.8	1.19	18.4	1.12	18.89	1.17	17.47
	CH ₂ (q)	3.72	58.28	3.44	56.07	3.54	57.96	3.6	58.26	3.57	57.72	3.65	58.05
	OH(s)	1.32	---	4.63	---	2.47	---	---	---	3.39	---	---	---
ethyl acetate	CH ₃ CO(s)	2.05	21.04	1.99	20.68	1.97	21.16	2.01	20.88	1.97	20.83	2.07	21.15
	CH ₂ CH ₃ (q)	4.12	60.49	4.03	59.74	4.06	60.98	4.09	61.5	4.05	60.56	4.14	62.32
	CH ₂ CH ₃ (t)	1.26	14.19	1.17	14.4	1.2	14.54	1.24	14.49	1.2	14.5	1.24	13.92
	CO	---	171.4	---	170.3	---	171.7	---	172.9	---	171	---	175.3
n-hexane	CH ₃ (t)	0.88	14.14	0.86	13.88	0.89	14.43	0.9	14.45	0.88	14.34	---	---
	CH ₂ (m)	1.26	22.7	1.25	22.05	1.28	23.4	1.29	23.68	1.28	23.28	---	---
			31.64		30.95		32.36		32.73		32.3		---
silicone grease	CH ₃ (s)	0.07	1.19	-0.1	---	0.08	---	0.1	2.1	0.13	1.4	---	---
methanol	CH ₃ (s)	3.49	50.41	3.16	48.59	3.28	49.9	3.34	49.86	3.31	49.77	3.34	49.5
	OH(s)	1.09	---	4.01	---	2.16	---	---	---	3.12	---	---	---
tetrahydrofuran	CH ₂ (2,5)(m)	3.76	67.97	3.6	67.03	3.64	68.33	3.71	68.83	3.63	68.07	3.74	68.68
	CH ₂ (3,4)(m)	1.85	25.62	1.76	25.14	1.8	26.27	1.87	26.48	1.79	26.15	1.88	25.67

Data extracted from: H. E. Gottlieb, V. Kotlyar and A. Nudelman *J. Org. Chem.*, **1997**, 62, 7512–7515
 G. R. Fulmer, *et al Organometallics*, **2010**, 29, 2176–2179

Periodic Table of the Elements

1 IA																		18 VIIIA	
1 H 1.008	2 He 4.003																		
3 Li 6.941	4 Be 9.012																		
5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18														
11 Na 22.99	12 Mg 24.31	13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.07	17 Cl 35.45	18 Ar 39.95												
19 K 39.10	20 Ca 40.08	21 Sc 44.96	22 Ti 47.87	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.69	29 Cu 63.55	30 Zn 65.38	31 Ga 69.72	32 Ge 72.64	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80		
37 Rb 85.47	38 Sr 87.62	39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.96	43 Tc (99)	44 Ru 101.1	45 Rh 102.9	46 Pd 106.4	47 Ag 107.9	48 Cd 112.4	49 In 114.8	50 Sn 118.7	51 Sb 121.8	52 Te 127.6	53 I 126.9	54 Xe 131.3		
55 Cs 132.9	56 Ba 137.3	57~71 La~Lu	72 Hf 178.5	73 Ta 180.9	74 W 183.84	75 Re 186.2	76 Os 190.2	77 Ir 192.2	78 Pt 195.1	79 Au 197.0	80 Hg 200.6	81 Tl 204.4	82 Pb 207.2	83 Bi 209.0	84 Po (210)	85 At (210)	86 Rn (222)		
87 Fr (223)	88 Ra (226)	89~103 Ac~Lr	104 Rf (267)	105 Db (268)	106 Sg (271)	107 Bh (272)	108 Hs (277)	109 Mt (276)	110 Ds (281)	111 Rg (280)	112 Uub (285)	113 Uut (284)	114 Uuq (289)	115 Uup (288)	116 Uuh (293)			118 Uuo (294)	
Lanthanide		57 La	58 Ce	59 Pr	60 Nd	61 Pm (145)	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu			
		138.9	140.1	140.9	144.2		150.4	152.0	157.3	158.9	162.5	164.9	167.3	168.9	173.0	175.0			
Actinide		89 Ac (227)	90 Th	91 Pa (231)	92 U (238)	93 Np (237)	94 Pu (239)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (252)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (262)			
		232.0																	