



Building Blocks for Low Molecular Weight Organic Semiconductors

- Organic Chemistry
- Analytical Chemistry
- Biochemistry
- Material Chemistry

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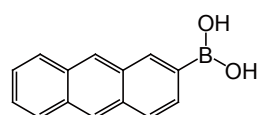
Building Blocks for Low Molecular Weight Organic Semiconductors

Building blocks such as anthracenes, carbazoles, fluorenes, pyrenes, thiophenes and spirofluorene xanthenes have been widely applied in the synthesis of low molecular weight organic semiconductor materials. These building blocks endow the materials with good thermal stability, excellent charge transfer properties and good luminous performance.

By focusing on the research and development of organic semiconductor materials, J&K is able to offer various building blocks with reliable quality and high performance for laboratory research and large scale manufacturing.

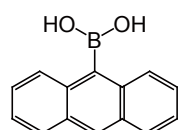
■ Anthracenes and Anthraquinones

626965



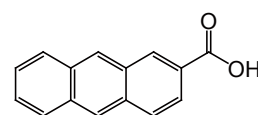
141981-64-8
2-Anthraceneboronic acid, 97%

154270



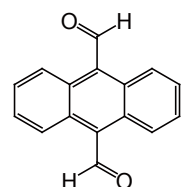
100622-34-2
9-Anthraceneboronic acid, 98%

482703



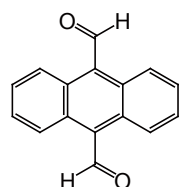
613-08-1
2-Anthracenecarboxylic acid, 98%

148637



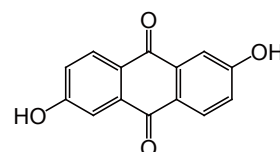
7044-91-9
Anthracene-9,10-dicarboxaldehyde, 95%

410917



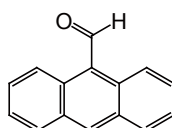
7044-91-9
Anthracene-9,10-dicarboxaldehyde, 98%

435137



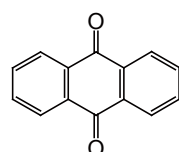
84-60-6
Anthraflavic acid, 98%

246883



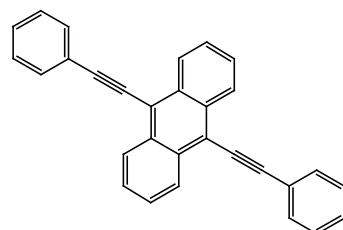
642-31-9
9-Anthraldehyde, 99%

138194



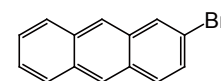
84-65-1
Anthraquinone, 98%

232052



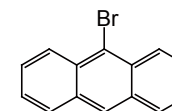
10075-85-1
9,10-Bis(phenylethynyl)anthracene, 98%

508366



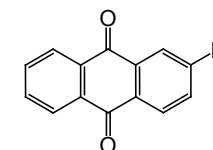
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2-Bromoanthracene, 97%

386054



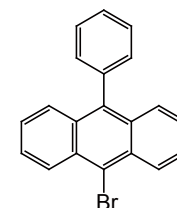
1564-64-3
9-Bromoanthracene, 95%

268949



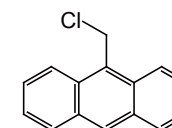
572-83-8
2-Bromoanthraquinone, 98%

981801



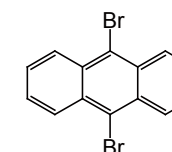
23674-20-6
9-Bromo-10-phenylanthracene, 98%

434551



24463-19-2
9-Chloromethylanthracene, 98%

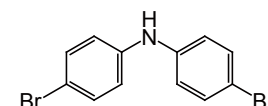
383489



523-27-3
9,10-Dibromoanthracene, 95%

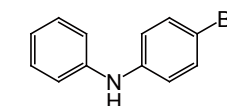
■ Arylamines

194369



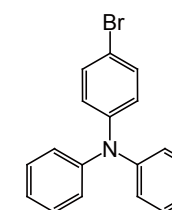
16292-17-4
Bis(4-bromophenyl)amine, 99%

556695



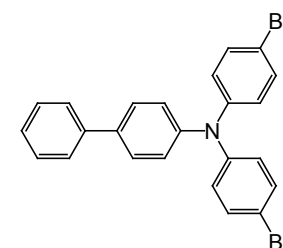
54446-36-5
4-Bromodiphenylamine, 98%

557231



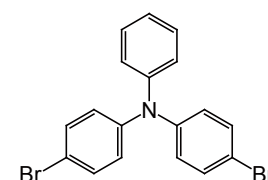
36809-26-4
4-Bromotriphenylamine, 98%

698362



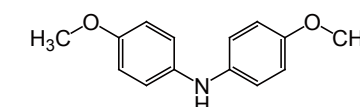
884530-69-2
4,4'-Dibromo-4''-phenyltriphenylamine, 99%

242945



81090-53-1
4,4'-Dibromotriphenylamine, 98%

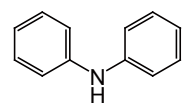
186474



101-70-2
4,4'-Dimethoxydiphenylamine, 98%

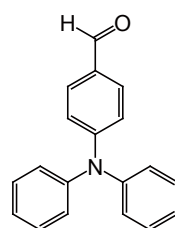
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276988



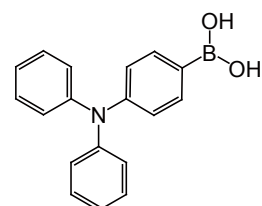
122-39-4
Diphenylamine, 99%

189304



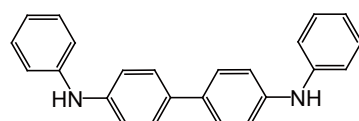
4181-05-9
4-(N,N-Diphenylamino)benzaldehyde, 98%

802106



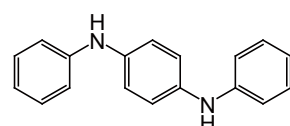
201802-67-7
4-(Diphenylamino)phenylboronic acid, 98%

484031



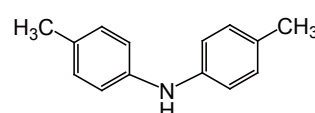
531-91-9
N,N'-Diphenylbenzidine, 97%

528432



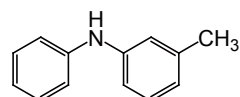
74-31-7
N,N'-Diphenyl-p-phenylenediamine, 95%

542286



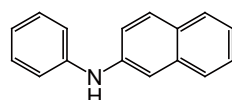
620-93-9
p,p'-Ditolylamine, 97%

227682



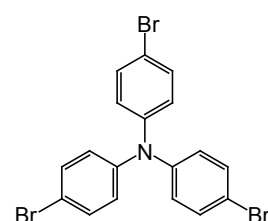
1205-64-7
3-Methyldiphenylamine, 98%

152097



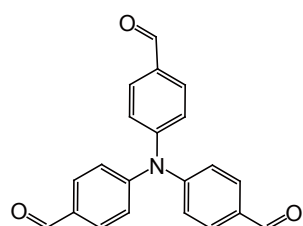
135-88-6
N-Phenyl-2-naphthylamine, 97%

207628



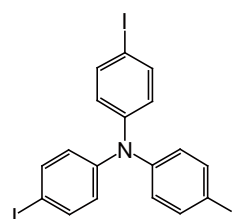
4316-58-9
Tris(4-bromophenyl)amine, 98%

513849



119001-43-3
Tris(4-formylphenyl)amine, 97%

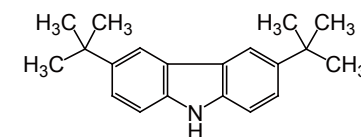
359469



4181-20-8
Tris(4-iodophenyl)amine, 98%

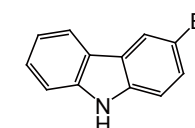
■ Carbazoles

185951



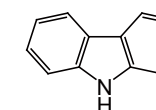
37500-95-1
3,6-Bis(tert-butyl)carbazole, 98%

549686



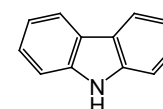
1592-95-6
3-Bromo-9H-carbazole, 96%

601413



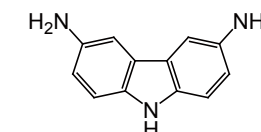
86-74-8
Carbazole, 97%

969571



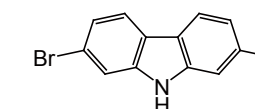
86-74-8
Carbazole, 99%

365061



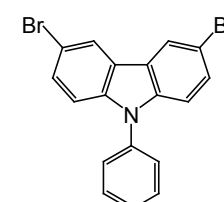
86-71-5
3,6-Diaminocarbazole, 98%

272170



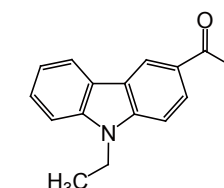
136630-39-2
2,7-Dibromocarbazole, 98%

503646



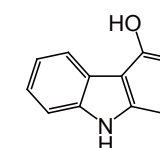
57103-20-5
3,6-Dibromo-9-phenylcarbazole, 98%

576177



7570-45-8
N-Ethylcarbazole-3-carboxaldehyde, 98%

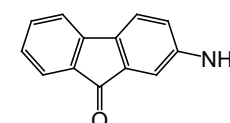
100998



52602-39-8
4-Hydroxycarbazole, 98%

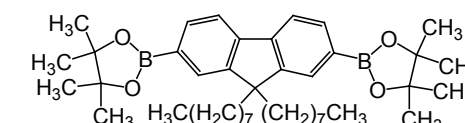
■ Fluorenes and Fluorenones

354185



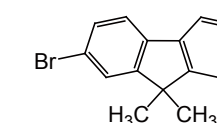
3096-57-9
2-Amino-9-fluorenone, 97%

1011042



196207-58-6
2,7-Bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-9,9-di-n-octylfluorene, 98%

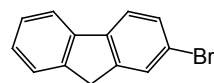
796043



28320-31-2
2-Bromo-9,9'-dimethylfluorene, 99%

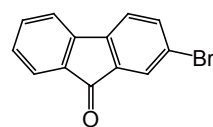
Building Blocks for Low Molecular Weight Organic Semiconductors

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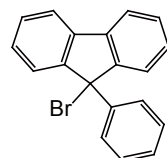
1133-80-8
2-Bromofluorene, 95%

187028



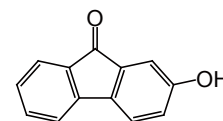
3096-56-8
2-Bromo-9-fluorenone, 98%

260190



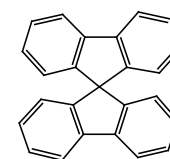
55135-66-5
9-Bromo-9-phenylfluorene, 98%

314469



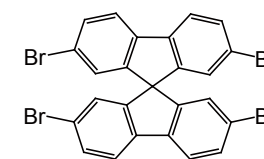
6949-73-1
2-Hydroxy-9-fluorenone, 97%

934531



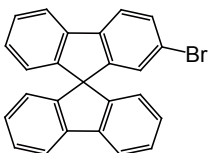
159-66-0
9,9'-Spiro[9H-fluorene], 97%

934549



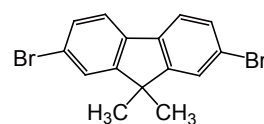
128055-74-3
2,2',7,7'-Tetrabromo-9,9'-spirobifluorene, 98%

983589



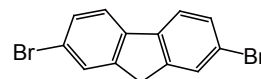
171408-76-7
2-Bromo-9,9'-spiro[9H-fluorene], 98%

723540



28320-32-3
2,7-Dibromo-9,9-dimethylfluorene, 98%

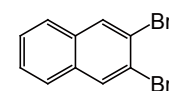
130355



16433-88-8
2,7-Dibromofluorene, 98%

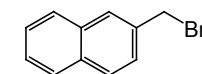
■ Naphthalenes

313962



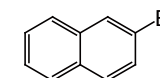
13214-70-5
2,3-Dibromonaphthalene, 98%

188134



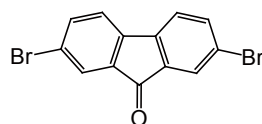
939-26-4
2-Bromomethyl naphthalene, 96%

198961



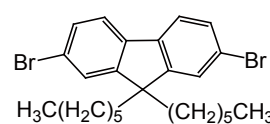
580-13-2
2-Bromonaphthalene, 98%

189833



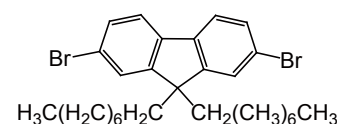
14348-75-5
2,7-Dibromo-9-fluorenone, 98%

626203



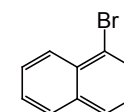
189367-54-2
9,9-Dihexyl-2,7-dibromofluorene, 98%

626204



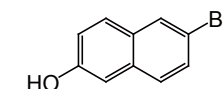
198964-46-4
9,9-Dioctyl-2,7-dibromofluorene, 98%

224893



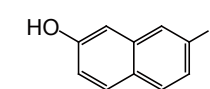
90-11-9
1-Bromonaphthalene, 99%

393988



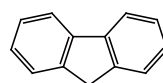
15231-91-1
6-Bromo-2-naphthol, 98%

533432



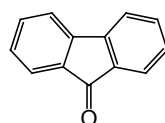
116230-30-9
7-Bromo-2-naphthol, 98%

334723



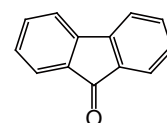
86-73-7
Fluorene, 98%

131274



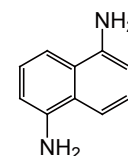
486-25-9
9-Fluorenone, 98%

366077



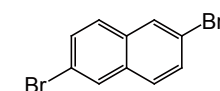
486-25-9
9-Fluorenone, 99%

209271



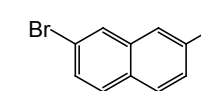
2243-62-1
1,5-Diaminonaphthalene, 97%

253216



13720-06-4
2,6-Dibromonaphthalene, 99%

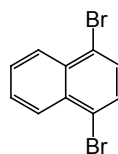
381433



58556-75-5
2,7-Dibromonaphthalene, 98%

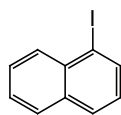
Building Blocks for Low Molecular Weight Organic Semiconductors

533901



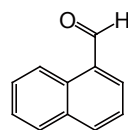
83-53-4
1,4-Dibromonaphthalene, 99%

174819



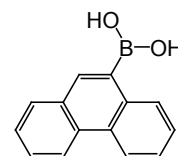
90-14-2
1-Iodonaphthalene, 98%

521168



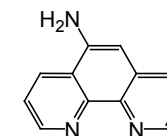
66-77-3
1-Naphthaldehyde, 97%

439401



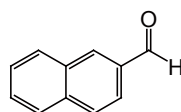
68572-87-2
9-Phenanthracenylboronic acid, 98%

443115



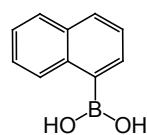
54258-41-2
1,10-Phenanthroline-5-amine, 98%

617687



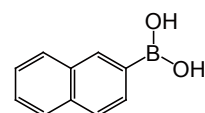
66-99-9
2-Naphthaldehyde, 98%

260728



13922-41-3
1-Naphthaleneboronic acid, 98%

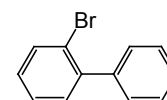
266475



32316-92-0
2-Naphthaleneboronic acid, 98%

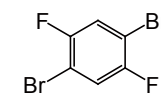
■ Phenyls

405013



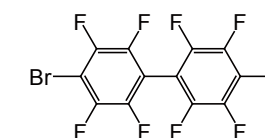
2052-07-5
2-Bromobiphenyl, 98%

585219



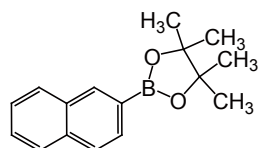
327-51-5
1,4-Dibromo-2,5-difluorobenzene, 98%

598612



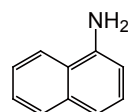
10386-84-2
4,4'-Dibromooctafluorobiphenyl, 97%

110560



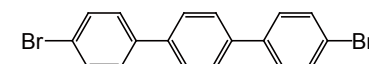
256652-04-7
2-Naphthaleneboronic acid pinacol ester, 98%

253305



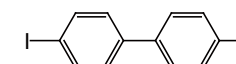
134-32-7
1-Naphthylamine, 99%

482348



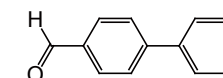
17788-94-2
4,4''-Dibromo-p-terphenyl, 95%

419643



3001-15-8
4,4'-Diiodobiphenyl, 98%

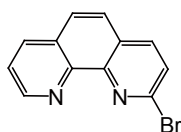
239545



99163-12-9
4-(4-Formylphenyl)pyridine, 97%

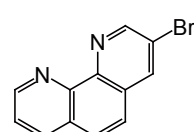
■ Phenanthrenes and Phenanthrolines

1420047



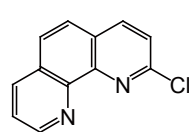
22426-14-8
2-Bromo-1,10-phenanthroline, 98%

111062



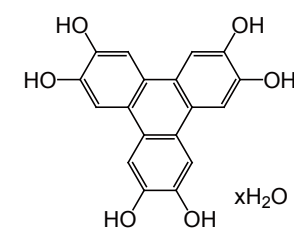
66127-01-3
3-Bromo-1,10-phenanthroline, 99%

600051



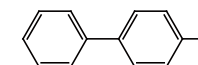
7089-68-1
2-Chloro-1,10-phenanthroline, 98%

288731



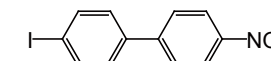
4877-80-9
2,3,6,7,10,11-Hexahydroxytriphenylene hydrate, 95%

510920



1591-31-7
4-Iodobiphenyl, 97%

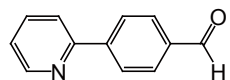
268491



29170-08-9
4-Iodo-4'-nitrobiphenyl, 98%

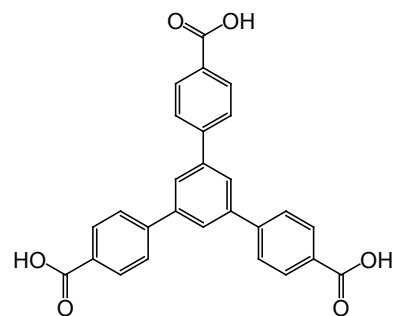
Building Blocks for Low Molecular Weight Organic Semiconductors

426506



127406-56-8
4-(2-Pyridyl)benzaldehyde, 97%

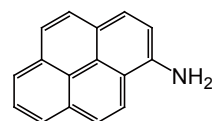
806914



50446-44-1
1,3,5-Tris(4-carboxyphenyl)benzene, 98%

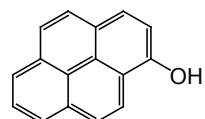
■ Pyrenes

109658



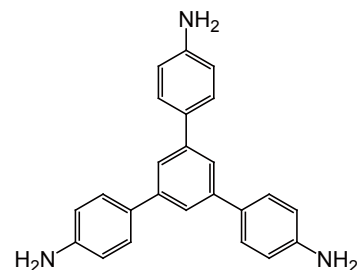
1606-67-3
1-Aminopyrene, 97%

951399



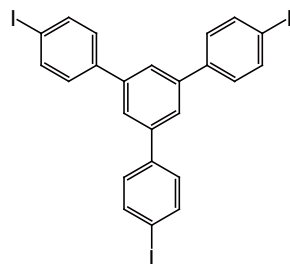
5315-79-7
1-Hydroxy-pyrene, 98%

1011075



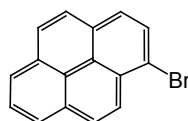
118727-34-7
1,3,5-Tris(4-aminophenyl)benzene, 98%

621513



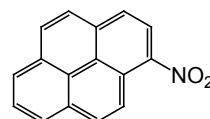
151417-38-8
1,3,5-Tris(4-iodophenyl)benzene, 97%

340593



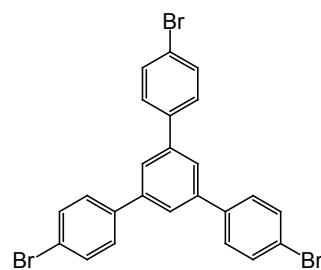
1714-29-0
1-Bromopyrene, 95%

300492



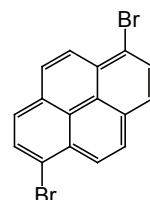
5522-43-0
1-Nitropyrene, 98%

620207



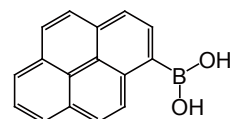
7511-49-1
1,3,5-Tris(4-bromophenyl)benzene, 97%

981810



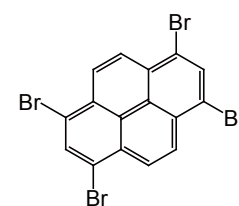
27973-29-1
1,6-Dibromopyrene, 99%

529996



164461-18-1
1-Pyreneboronic acid, 96%

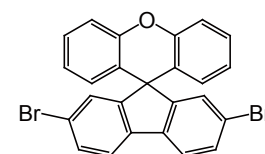
1156450



128-63-2
1,3,6,8-Tetrabromopyrene, 98%

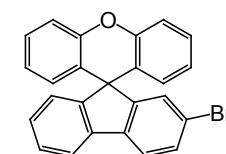
■ Spirofluorene xanthenes (SFX)

1784535



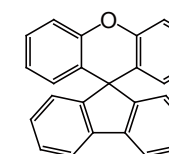
198142-65-3
2,7-Bibromospiro[fluorene-9,9'-xanthene], 95%

1784534



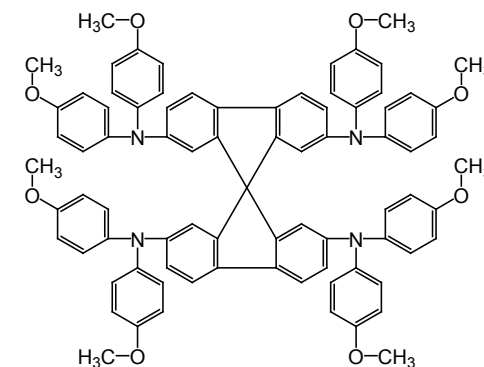
899422-06-1
2-Bromospiro[fluorene-9,9'-xanthene], 95%

1784533



159-62-6
Spiro[fluorene-9,9'-xanthene], 95%

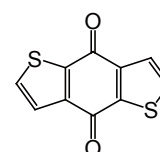
920726



207739-72-8
2,2',7,7'-Tetrakis-(N,N-di-4-methoxyphenylamino)-9,9'-spirobifluorene, 98%

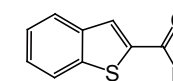
■ Thiophenes

1173154



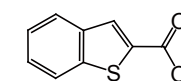
32281-36-0
Benzo[1,2-b:4,5-b']dithiophene-4,8-dione, 97%

329997



3541-37-5
Benzothiophene-2-carboxaldehyde, 97%

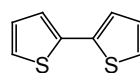
250284



6314-28-9
Benzothiophene-2-carboxylic acid, 98%

Building Blocks for Low Molecular Weight Organic Semiconductors

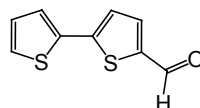
122487



492-97-7

2,2'-Bithiophene, 98%

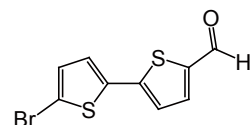
107292



3779-27-9

2,2'-Bithiophene-5-carboxaldehyde,
98%

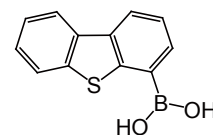
506158



110046-60-1

5-Bromo-2,2'-bithiophene-5'-
carboxaldehyde, 98%

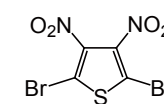
620822



108847-20-7

Dibenzothiophene-4-boronic acid, 98%

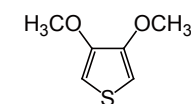
150005



52431-30-8

2,5-Dibromo-3,4-dinitrothiophene, 98%

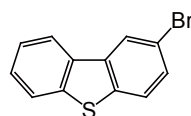
348273



51792-34-8

3,4-Dimethoxythiophene, 98%

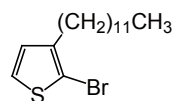
205844



22439-61-8

2-Bromodibenzothiophene, 95%

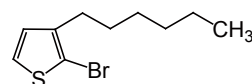
807425



139100-06-4

2-Bromo-3-dodecylthiophene, 95%

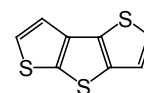
807482



69249-61-2

2-Bromo-3-hexylthiophene, 98%

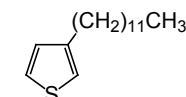
196753



3593-75-7

Dithieno[2,3-b:2',3'-d]thiophene, 98%

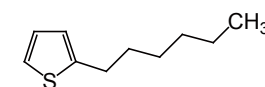
104299



104934-52-3

3-Dodecylthiophene, 98%

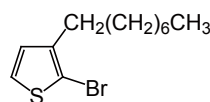
523500



18794-77-9

2-Hexylthiophene, 98%

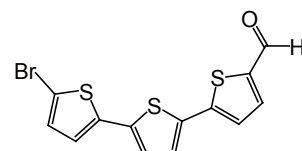
1099067



145543-83-5

2-Bromo-3-octylthiophene, 97%

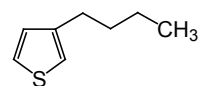
989431



161726-69-8

5''-Bromo-2,2':5',2''-terthiophene-5-
carboxaldehyde, 95%

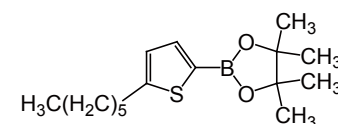
458165



34722-01-5

3-n-Butylthiophene, 98%

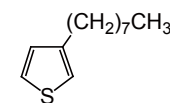
807636



917985-54-7

5-Hexyl-2-thiopheneboronic acid
pinacol ester, 96%

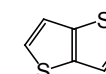
403519



65016-62-8

3-Octylthiophene, 98.5%

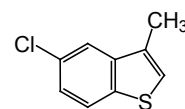
452539



251-41-2

Thieno[3,2-b]thiophene, 98%

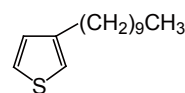
218034



19404-18-3

5-Chloro-3-methylbenzothiophene, 97%

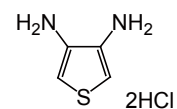
567659



65016-55-9

3-Decylthiophene, 98%

517268



90069-81-1

3,4-Diaminothiophene dihydrochloride,
97%

The image displays a periodic table of elements, with a detailed callout box for Hydrogen (H) illustrating its properties and symbols. The callout box points to the following information:

- Atomic Number:** 1
- Atomic Symbol:** H
- Atomic Name:** Hydrogen
- Atomic Weight:** 1.00794
- Atomic Radius (pm):** —
- Oxidation State:** 1, -1
- Electronic Configuration:** 1s¹
- Melting Point:** -258.975 °C
- Boiling Point:** -252.87 °C
- Crystalline Form:** (represented by a cube icon)

The periodic table includes elements from Hydrogen (1) to Oganesson (118), with Lanthanide and Actinide series shown separately.

☐ Face-centered cubic
 ☐ Body-centered cubic
 ☐ Close-packed hexagonal
 ☐ Diamond structure
 ☐ Tetragonal

△ Triangle (Rhombus) ◻ Hexagonal ■ Complex cubic □ Orthogonal ▽ Monoclinic

Gas	Solid	57 La Lanthanum 138.90547 920 °C 187.7 3,464 °C 3 [Xe]5d⁶s² 58 Ce Cerium 140.116 798 °C 182.4 3,443 °C 3,4 [Xe]4f¹5d¹s² 59 Pr Praseodymium 140.90766 931 °C 182.8 3,520 °C 3,4 [Xe]4f³s² 60 Nd Neodymium 144.242 1,018 °C 182.2 3,074 °C 3,4 [Xe]4f⁴s² 61 Pm Promethium 145 931 °C — 3,090 °C 3 [Xe]4f⁶s² 62 Sm Samarium 150.36 1,072 °C 182.2 1,794 °C 3 [Xe]4f⁶s²							
Artificially prepared	Liquid	89 Ac Actinium 227.03588 1,600 °C 187.8 3,198 °C 3 [Rn]6d¹7s² 90 Th Thorium 232.0377 1,765 °C 179.3 4,788 °C 4,3 [Rn]6d²7s² 91 Pa Protactinium 231.03688 1,600 °C 180.5 4,027 °C 5,4,3 [Rn]5f⁶d¹7s² 92 U Uranium 238.02891 1,132 °C 131 4,131 °C 6,4,3,5 [Rn]5f⁶d¹7s² 93 Np Neptunium 237.0482 640 °C 151 4,090 °C 5,3,4,6,7 [Rn]5f⁶d¹7s² 94 Pu Plutonium 244 540 °C 151.3 3,228 °C 4,3,5,6,7 [Rn]5f⁷s²							

0

2

He

Helium

4.002602

—

−268.93 °C

1s²

III A

5

B

Boron

10.811

2,300 °C

98

3,927 °C

3

[He]2s²2p¹



IV A

6

C

Carbon

12.0107

3,675 °C

91.4

4,827 °C

4,−4,±2

[He]2s²2p²



V A

7

N

Nitrogen

14.0067

−209.86 °C

92

−195.79 °C

−3.5,4,3,±2,±1

[He]2s²2p³



V I A

8

O

Oxygen

15.9994

−222.65 °C

100

−182.95 °C

−2,−1,2

[He]2s²2p⁴



V II A

9

F

Fluorine

18.998403163

−219.52 °C

19

−188.12 °C

−1

[He]2s²2p⁵



10

Ne

Neon

20.1797

−248.447 °C

20

−246.08 °C

[He]2s²2p⁶



VIII

28

Ni

Nickel

58.6934

1,453 °C

124.6

2,913 °C

2,3,0,4,±1

[Ar]3d⁸4s²



IB

29

Cu

Copper

63.546

1,084.6 °C

127.8

2,562 °C

2,1,3

[Ar]3d¹⁰4s¹



IIB

30

Zn

Zinc

65.38

419.73 °C

133.3

907 °C

2

[Ar]3d¹⁰4s²



31

Ga

Gallium

69.723

29.76 °C

122.1

2,204 °C

4,2

[Ar]3d¹⁰4s²4p¹



32

Ge

Germanium

72.63

938.3 °C

117.6

2,833 °C

4,2

[Ar]3d¹⁰4s²4p²



33

As

Arsenic

74.9216

817 °C

124.8

614 °C

3,5,3

[Ar]3d¹⁰4s²4p³



34

Se

Selenium

78.971

221 °C

116.1

685 °C

4,6,−2,2,1

[Ar]3d¹⁰4s²4p⁴



35

Br

Bromine

79.904

−7.1 °C

115.1

58.8 °C

−1,7,5,4,3,1,4

[Ar]3d¹⁰4s²4p⁵



36

Kr

Krypton

83.798

−157.22 °C

124.3

−153.22 °C

4,2

[Ar]3d¹⁰4s²4p⁶



46

Pd

Palladium

106.42

1,552 °C

137.6

2,963 °C

4,2,3,0,5

[Kr]4d⁸



47

Ag

Silver

107.8682

961 °C

144.5

2,162 °C

1,2

[Kr]4d¹⁰5s¹



48

Cd

Cadmium

112.414

321.18 °C

149.0

767 °C

2,1

[Kr]4d¹⁰5s²



49

In

Indium

114.818

156.76 °C

162.6

2,072 °C

3,1

[Kr]4d¹⁰5s²5p¹



50

Sn

Tin

118.710

232.06 °C

140.5

2,602 °C

4,2

[Kr]4d¹⁰5s²5p²



51

Sb

Antimony

121.760

630.9 °C

145

1,587 °C

3,5,3

[Kr]4d¹⁰5s²5p³



52

Te

Tellurium

127.60

449.65 °C

143.2

988 °C

4,6,−2,2,1

[Kr]4d¹⁰5s²5p⁴



53

I

Iodine

126.90447

113.5 °C

184.3

184.3 °C

5,7,−1,3,1

[Kr]4d¹⁰5s²5p⁵



54

Xe

Xenon

131.293

−111.7 °C

131.293

−108.12 °C

4,2,6,8

[Kr]4d¹⁰5s²5p⁶



78

Pt

Platinum

195.084

1,772 °C

138.8

3,825 °C

5,7,−1,3,1,0

[Xe]4f¹⁴5d⁹6s¹



79

Au

Gold

196.966569

1,064.58 °C

144.2

2,856 °C

5,7,−1,3,1,0

[Xe]4f¹⁴5d¹⁰6s¹



80

Hg

Mercury

200.592

−38.72 °C

160.3

357 °C

2,1

[Xe]4f¹⁴5d¹⁰6s²



81

Tl

Thallium

204.383

304 °C

170.4

1,473 °C

3,1

[Xe]4f¹⁴5d¹⁰6s²6p¹



82

Pb

Lead

207.2

327.6 °C

175.0

1,749 °C

2,4

[Xe]4f¹⁴5d¹⁰6s²6p²



83

Bi

Bismuth

208.9804

271.52 °C

164.8

1,564 °C

3,5,3

[Xe]4f¹⁴5d¹⁰6s²6p³



84

Po

Polonium

209

254 °C

167.3

962 °C

4,2,6,−2

[Xe]4f¹⁴5d¹⁰6s²6p⁴



85

At

Astatine

210

302 °C

167.3

337 °C

5,−1,7,3,1,0

[Xe]4f¹⁴5d¹⁰6s²6p⁵



86

Rn

Radon

222

−71 °C

167.3

−61.7 °C

4,2

[Xe]4f¹⁴5d¹⁰6s²6p⁶



110

Ds

Darmstadtium

271

—

—

—

[Rn]5f¹⁴6d⁷7s¹



111

Rg

Roentgenium

280

—

—

—

[Rn]5f¹⁴6d¹⁰7s¹



112

Cn

Copernicium

285

—

—

—

[Rn]5f¹⁴6d¹⁰7s²



113

Nh

Nihonium

286

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p¹



114

Fl

Flerovium

289

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p²



115

Mc

Moscovium

288

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p³



116

Lv

Livermorium

293

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p⁴



117

Ts

Tennesse

294

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p⁵



118

Og

Oganesson

297

—

—

—

[Rn]5f¹⁴6d¹⁰7s²7p⁶



Structure symbols phase sets represent isomers. The external symbol is the high temperature phase and the internal symbol is the low temperature phase. For example, Sodium is close-packed hexagonal structure in the low temperature and presents body-centered cubic structure in the high temperature.