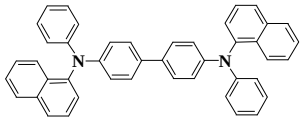
Catalogue

Hole Transport Materials

ALD-A001 NPB

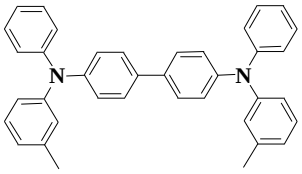
N,N'-Bis(naphthalen-1-yl)-N,N'-bis(phenyl)benzidine



CAS: 123847-85-8
Formula: $C_{44}H_{32}N_2$
M.W.: 588.74
M.P.: 281-283℃
Abs: 341nm(CH_2Cl_2)
PL: 450nm(THF)

ALD-A002 TPD

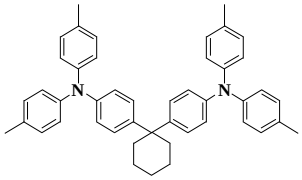
N,N'-di(3-methylphenyl)-N,N'-di(phenyl)benzidine



CAS: 65181-78-4
Formula: $C_{38}H_{32}N_2$
M.W.: 516.67
Abs: 352nm($CHCl_3$)
PL: 398nm($CHCl_3$)

ALD-A003 TAPC

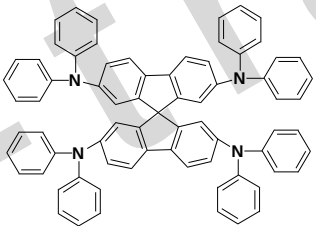
1,1- Bis[4-[N,N′-di(*p*-tolyl)amino]phenyl]cyclohexane



CAS: 58473-78-2
Formula: $C_{46}H_{46}N_2$
M.W.: 626.87
Abs: 305nm(THF)
PL: 414nm(THF)

ALD-A004 Spiro-TAD

2,2',7,7'-tetrakis(*N*,*N*-diphenylamino)-9,9-spirobifluorene

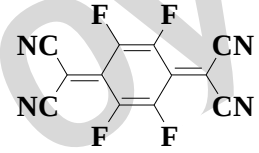


CAS: 189363-47-1
Formula: $C_{73}H_{52}N_4$
M.W.: 985.22
Abs: 378nm (in THF)
PL: 415nm(in THF)

Hole Injection Materials

ALD-B001 F_4TCNQ

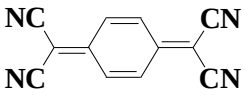
2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane



CAS: 29261-33-4
Formula: $C_{12}F_4N_4$
M.W.: 276.15
Abs: 258nm(in THF)
PL: 402 nm(in THF)

ALD-B002 TCNQ

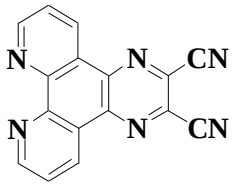
7,7,8,8-tetracyanoquinodimethane



CAS: 1518-16-7
Formula: $C_{12}H_4N_4$
M.W.: 204.19

ALD-B003 PPDN

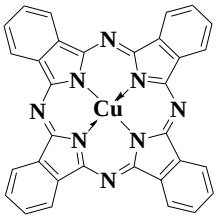
Pyrazino[2,3-f][1,10]phenanthroline-2,3-dicarbonitrile



CAS: 215611-93-1
Formula: $C_{16}H_6N_6$
M.W.: 282.26
Abs: 307 nm (in CH_2Cl_2)
PL: 487 nm (in CH_2Cl_2)

ALD-B004 CuPC

Copper phthalocyanine

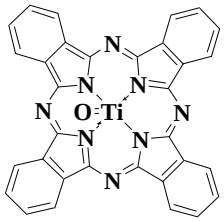


CAS: 147-14-8
Formula: $C_{32}H_{16}CuN_8$
M.W.: 576.08
Abs:345,631 nm (in CH_2Cl_2)
PL: 404 nm (film)

Hole Injection Materials

ALD-B005 TiOPC

Oxytitamium phthalocyanine

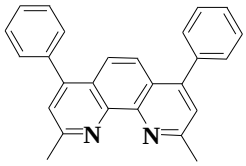


CAS: 26201-32-1
Formula: $C_{32}H_{16}N_8OTi$
M.W.: 576.39
PL: 392 nm (film)

Electron Transport Materials/Hole Blocking Materials

ALD-C001 BCP

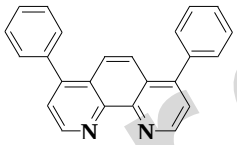
2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline/Bathocuproine



CAS: 4733-39-5
Formula: $C_{26}H_{20}N_2$
M.W.: 360.45
Abs: 277nm(in THF)
PL: 386nm(in THF)

ALD-C002 Bphen

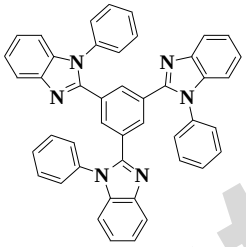
4,7-diphenyl-1,10-phenanthroline



CAS: 1662-01-7
Formula: $C_{24}H_{16}N_2$
M.W.: 332.39
M.P. 218-221℃
Abs: 272nm(in THF)
PL: 379nm(in THF)

ALD-C003 TPBi

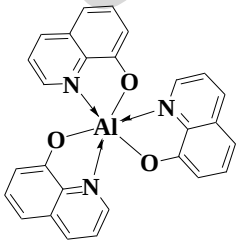
1,3,5-Tri(1-phenyl-1H-benzo[d]imidazol-2-yl)phenyl



CAS: 192198-85-9
Formula: $C_{45}H_{30}N_6$
M.W.: 654.76

ALD-C004 Alq_3

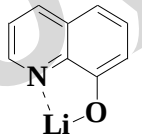
Tris(8-hydroxyquinolinato)aluminum



CAS: 2085-33-8
Formula: $C_{27}H_{18}AlN_3O_3$
M.W.: 459.43
M.P.: 413.5-414.5℃
Abs: 382.7nm(in CH_2Cl_2)

ALD-C005 Liq

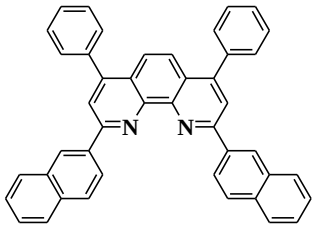
8-Hydroxyquinolinolato-lithium



CAS: 850918-68-2
Formula: C_9H_6NO
M.W.: 151.09
Abs: 261nm(in THF)
PL: 331nm(in THF)

ALD-C006 NBphen

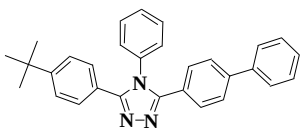
2,9-Bis(naphthalen-2-yl)-4,7-diphenyl-1,10-phenanthroline



CAS: 1174006-43-9
Formula: $C_{44}H_{28}N_2$
M.W.: 584.71

ALD-C007 TAZ

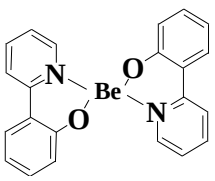
3-(Biphenyl4-yl)-4-phenyl-5-(4-*tert*-butylphenyl)-4H-1,2,4-triazo



CAS: 150405-69-9
Formula: $C_{30}H_{27}N_3$
M.W.: 429.56
Abs: 290nm(in THF)
PL: 390nm(in THF)

ALD-C008 $Be(PP)_2$

Bis[2-(2-hydroxyphenyl)-pyridine]beryllium

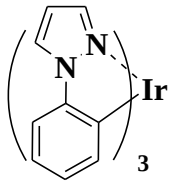


CAS: 220694-90-6
Formula: $C_{22}H_{16}BeN_2O_2$
M.W.: 349.39

Electron Blocking Materials

ALD-D001 Ir(PPZ)3

Tris(phenylpyrazole)iridium



CAS: 359014-72-5

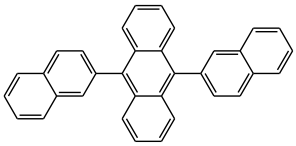
Formula: $C_{29}H_{20}F_4IrN_3O_2$

M.W.: 710.70

Flourescent Host Materials

ALD-E001 ADN

9,10-Di(naphth-2-yl)anthracene



CAS: 122648-99-1

Formula: $C_{34}H_{22}$

M.W.: 430.54

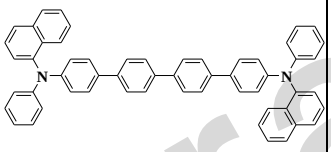
M.P.: 320℃

Abs: 375, 395nm (in THF)

PL: 425nm(THF)

ALD-E002 4P-NPB

N,N'-di-(1-naphthalenyl)-N,N'-diphenyl-[1,1':4',1'':4'',1'''-quaterphenyl]-4,4'''-diamine



CAS: 948552-24-7

Formula: $C_{56}H_{40}N_2$

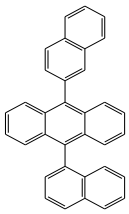
M.W.: 740.93

Abs: 351nm($CHCl_3$)

PL: 422nm($CHCl_3$)

ALD-E003 α , β -ADN

9-(1-naphthyl)-10-(2-naphthyl) anthracene



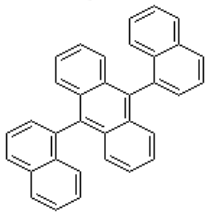
CAS: 855828-36-3

Formula: $C_{34}H_{22}$

M.W.: 430.54

ALD-E004 α -ADN

9,10-Di(1-naphthyl)anthracene



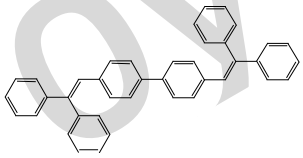
CAS: 26979-27-1

Formula: $C_{56}H_{40}N_2$

M.W.: 740.92

ALD-E005 DPVBi

4,4'-Bis(2,2-diphenylvinyl)-1,1'-biphenyl



CAS: 142289-08-5

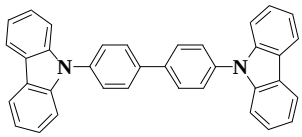
Formula: $C_{40}H_{30}$

M.W.: 510.67

Phosphorescent Host

ALD-F001 CBP

4,4'-Bis(9H-carbazol-9-yl)biphenyl



CAS: 58328-31-7

Formula: $C_{36}H_{24}N_2$

M.W.:484.59

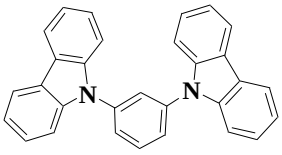
M.P.: 281℃

Abs: 292nm(in THF)

PL: 369nm(in THF)

ALD-F002 mCP

1,3-bis(9H-carbazol-9-yl)benzene



CAS: 550378-78-4

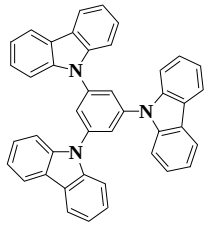
Formula: $C_{30}H_{20}N_2$

M.W.: 408.49

Phosphorescent Host

ALD-F003 TCP

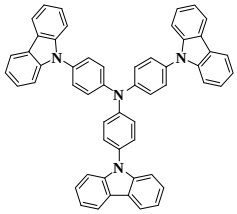
1,3,5-tri(9H-carbazol-9-yl)benzene



CAS: 148044-07-9
Formula: $C_{42}H_{27}N_3$
M.W.: 573.68
Abs: 292nm(in THF)
PL: 343nm(in THF)

ALD-F004 TCTA

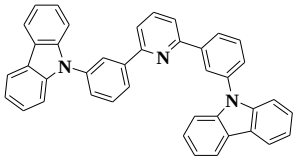
4,4',4''-Tri(9-carbazoyl)triphenylamine



CAS: 139092-78-7
Formula: $C_{54}H_{36}N_4$
M.W.: 740.89

ALD-F005 26DCZPPY

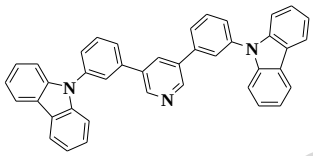
2,6-bis(3-(9H-carbazol-9-yl)phenyl)pyridine



CAS: 1013405-24-7
Formula: $C_{47}H_{21}N_3$
M.W.: 561.67
Abs:239,292nm(in CH_2Cl_2)
PL: 410nm (in CH_2Cl_2)

ALD-F006 35DCZPPY

3,5-bis(3-(9H-carbazol-9-yl)phenyl)pyridine

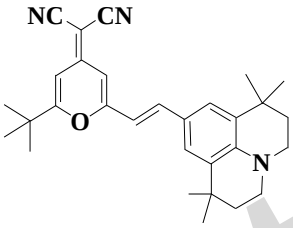


CAS: 1013405-25-8
Formula: $C_{47}H_{21}N_3$
M.W.: 561.67
Abs: nm(in THF)
PL: nm(in THF)

Red Dopant Materials

ALD-G001 DCJTB

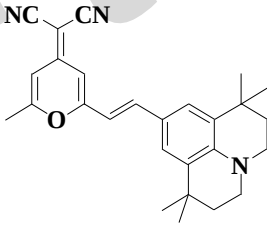
4-(Dicyanomethylene)-2-tert-butyl-6-(1,1,7,7-tetramethyljulolidin



CAS: 200052-70-6
Formula: $C_{30}H_{35}N_3O$
M.W.: 453.63

ALD-G002 DCJT

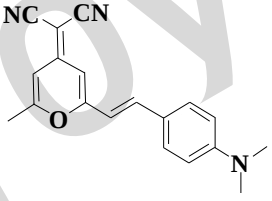
4-(Dicyanomethylene)-2-methyl-6-(1,1,7,7-tetramethyljulolidyl-



CAS: 159788-00-8
Formula: $C_{27}H_{29}N_3O$
M.W.: 411.54

ALD-G003 DCM

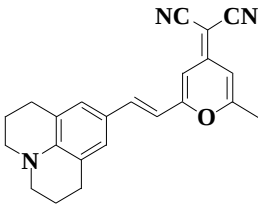
E)-2-(2-(4-(dimethylamino)styryl)-6-methyl-4H-pyran-4-ylidene)



CAS: 51325-91-8
Formula: $C_{19}H_{17}N_3O$
M.W.: 303.36

ALD-G004 DCM2

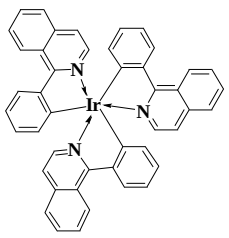
4-(Dicyanomethylene)-2-methyl-6-julolidyl-9-enyl-4H-pyran



CAS: 51325-95-2
Formula: $C_{23}H_{21}N_3O$
M.W.: 355.43
Abs: 497nm (in THF)
PL: 605nm (in THF)

ALD-G005 Ir(piq)$_3$

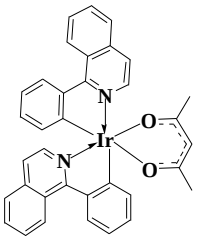
Tris(1-phenyl-isoquinoline) iridium(III)



CAS: 435293-93-9
Formula: $C_{45}H_{30}IrN_3$
M.W.: 804.96

ALD-G006 Ir(piq)$_2$(acac)

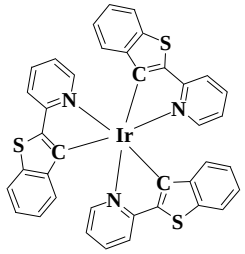
Bis(1-phenyl-isoquinoline)(Acetylacetonato)iridium(III)



CAS: 435294-03-4
Formula: $C_{35}H_{27}Ir\ N_2O_2$
M.W.: 699.82

ALD-G007 Ir(btpy)3

Tris(2-(benzo[b]thiophen-2-yl)pyridineiridium(III)



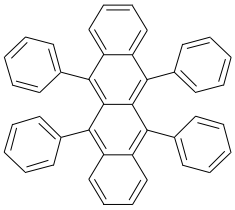
CAS: 405289-74-9

Formula: $C_{39}H_{24}IrN_3S_3$

M.W.: 823.08

ALD-G008 Rubrene

5,6,11,12-tetraphenylnaphthacene



CAS: 517-51-1

Formula: C42H28

M.W.: 532.67

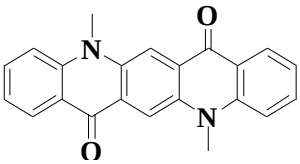
Abs: 299 nm (in THF)

PL: 553 nm (in THF)

Green Dopant Materials

ALD-H001 DMQA

5,12-Dimethylquinacridone



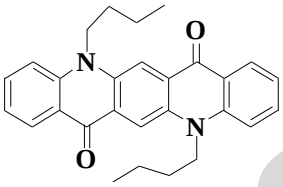
CAS: 19205-19-7

Formula: $C_{22}H_{16}N_2O_2$

M.W.: 340.37

ALD-H002 DBQA

5,12-Dibutylquinacridone



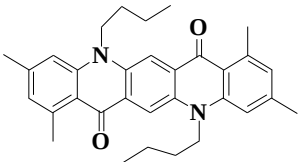
CAS: 99762-80-8

Formula: $C_{28}H_{28}N_2O_2$

M.W.: 424.53

ALD-H003 TMDBQA

5,12-Dibutyl-1，3，8，10-tetramethyquinacridone



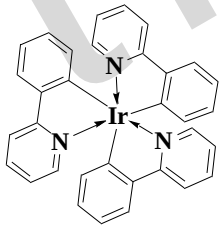
CAS: 850815-10-0

Formula: $C_{32}H_{36}N_2O_2$

M.W.: 480.28

ALD-H004 $Ir(ppy)_3$

Tris(2-phenylpyridinato) iridium(III)



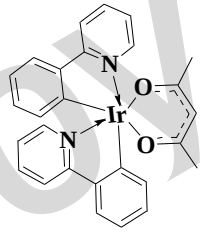
CAS: 94928-86-6

Formula: $C_{33}H_{24}IrN_3$

M.W.: 654.78

ALD-H005 $Ir(ppy)_2(acac)$

Bis(2-phenylpyridine)(Acetylacetonato)iridium(III)



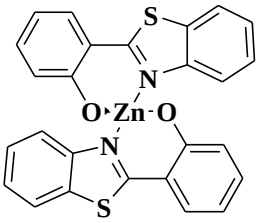
CAS:337526-85-9

Formula: $C_{27}H_{23}N_2O_2Ir$

M.W.: 599.7

ALD-H006 $Zn(BTZ)_2$

Bis[2-(2-benzothiazolyl)phenolato]zinc(Ⅱ)



CAS: 58280-31-2

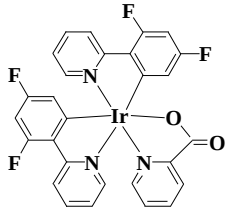
Formula: $_{26}H_{16}N_2O_2S_2Zn$

M.W.: 517.93

Blue Dopant Materials

ALD-I001 FIrPic

Bis(4,6-difluorophenyl-pyridine) (picolinate)iridium(III)



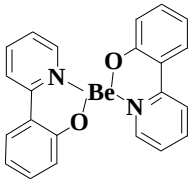
CAS:376367-93-0

Formula: $C_{29}H_{20}F_4IrN_3O_2$

M.W.: 711.11

ALD-I008 $Be(PP)_2$

Bis[2-(2-hydroxyphenyl)-pyridine]beryllium



CAS: 220694-90-6

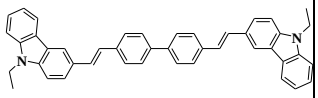
Formula: $C_{22}H_{16}BeN_2O_2$

M.W.: 349.39

Blue Dopant Materials

ALD-I002 BCzVBi

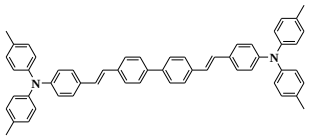
4,4'-bis(9-ethyl-3-carbazovinylene)-1,1'-biphenyl



CAS: 475480-90-1
Formula: $C_{44}H_{36}N_2$
M.W.: 592.77
Abs: 384nm (in THF)
PL: 438, 459 nm (in THF)

ALD-I003 DPAVBi

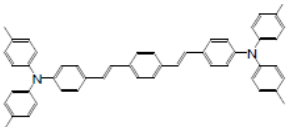
4,4'-bis[4-(di-*p*-tolylamino)styryl]biphenyl



CAS: 119586-44-6
Formula: $C_{56}H_{48}N_2$
M.W.: 748.99
Abs: 405nm (in THF)
PL: 475 nm (in THF)

ALD-I004 DPAVB

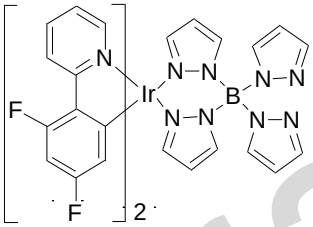
4-(di-*p*-tolylamino)-4'-[(di-*p*-tolylamino)styryl]stilbene



CAS: 596103-58-1
Formula: $C_{50}H_{44}N_2$
M.W.: 672.90
Abs: 414 nm (in THF)
PL: 476 nm (in THF)

ALD-I005 FIr6

Bis(2,4-difluorophenylpyridinato)tetrakis(1-pyrazolyl)borate

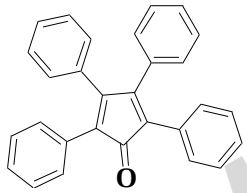


CAS: 664374-03-2
Formula: $C_{35}H_{27}N_{10}BF_4Ir$
M.W.: 866.68
Abs: 367nm (in THF)
PL: 461, 490 nm (in THF)

Organic Electron Materials

ALD-R001 TPCD

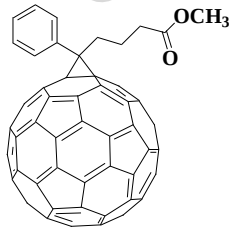
2,3,4,5-tetraphenylcyclopenta-2,4-dienone



CAS: 479-33-4
Formula: $C_{29}H_{20}O$
M.W.: 384.47

ALD-R002 PCBM

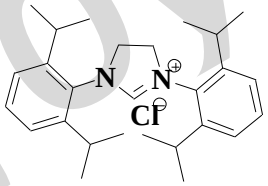
(6,6)-Phenyl-C61 butyrie acid methyl ester



CAS: 160848-22-6
Formula: $C_{72}H_{14}O_2$
M.W.: 910.88

ALD-R003 BPMZ

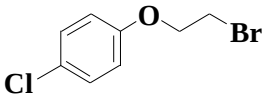
1,3-Bis-(2, 6-diisopropyl)dihydroimidazole



CAS: 258278-25-0
Formula: $C_{27}H_{39}NO_2$
M.W.: 427.06

ALD-R004 BCB

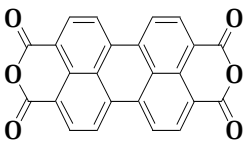
1-(2-bromoethoxy)-4-chlorobenzene



CAS: 2033-76-3
Formula: C_8H_8BrClO
M.W.: 235.51

ALD-R005 PTCDA

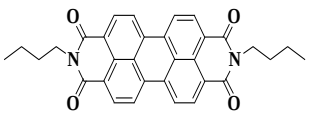
3,4,9,10-Perylenetetracarboxylic dianhydride



CAS: 128-69-8
Formula: $C_{24}H_8O_6$
M.W.: 392.32

ALD-R006 PTCDI-C4

Perylene-3,4,9,10-tetraformyldiimine

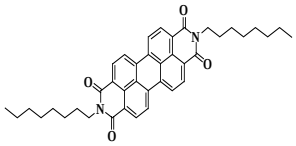


CAS: 81-33-4
Formula: C24H10N2O4
M.W.: 390.32

Organic Electron Materials

ALD-R007 PTCDI-C8

Perylene-3,4,9,10-tetracarboxylic acid N,N'-dioctylimide



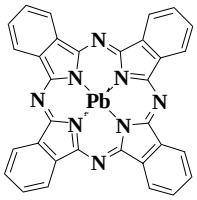
CAS: 78151-58-3

Formula: $C_{32}H_{26}N_2O_4$

M.W.: 502.56

ALD-R008 PbPc

Lead phthalocyanine



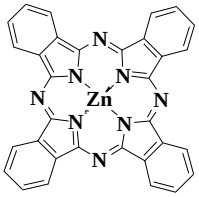
CAS: 15187-16-3

Formula: $C_{32}H_{16}N_8Pb$

M.W.: 719.72

ALD-R009 ZnPc

Zinc phthalocyanine



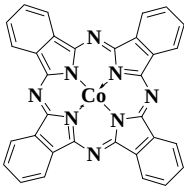
CAS: 14320-04-8

Formula: $C_{32}H_{16}N_8Zn$

M.W.: 577.91

ALD-R010 CoPc

Cobalt phthalocyanine



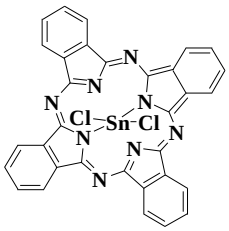
CAS: 3317-67-7

Formula: $C_{32}H_{16}CoN_8$

M.W.: 571.46

ALD-R011 $SnCl_2Pc$

Phthalocyanine Tin(IV) Dichloride



CAS: 18253-54-8

Formula: $C_{32}H_{16}Cl_2N_8Sn$

M.W.: 702.12