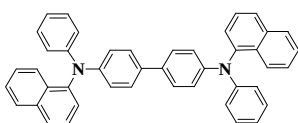
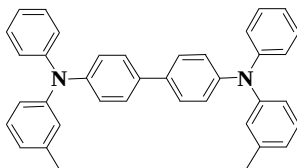
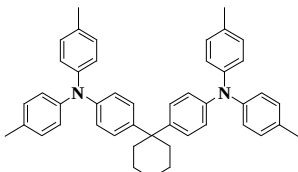
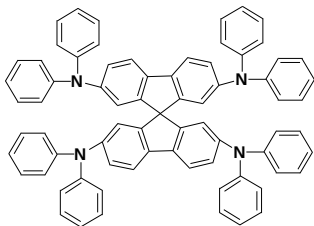
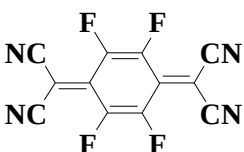
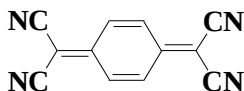
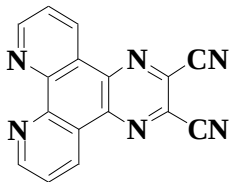
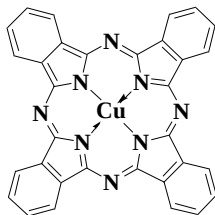
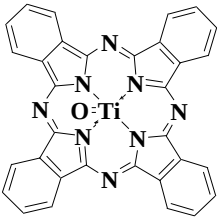
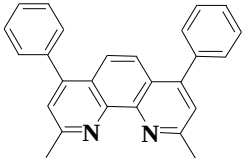
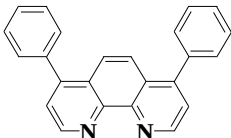
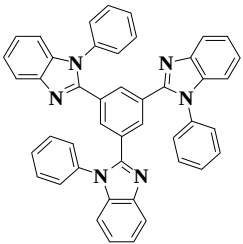
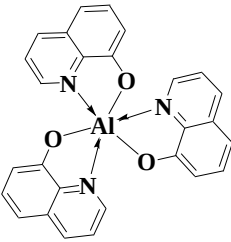
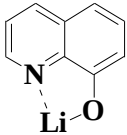
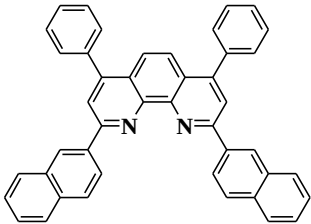
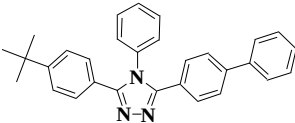
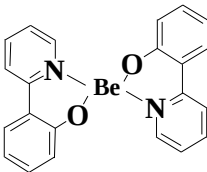
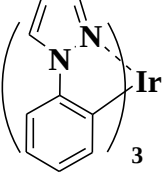
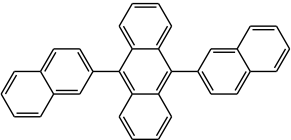
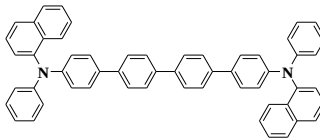
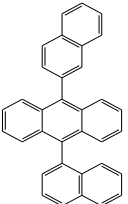
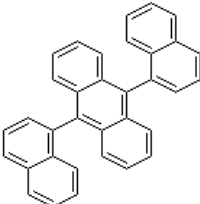
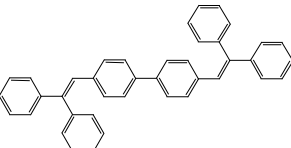
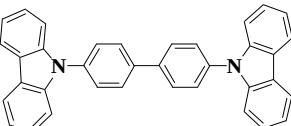
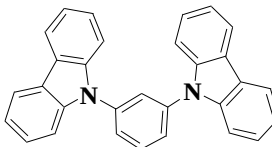


Catalogue

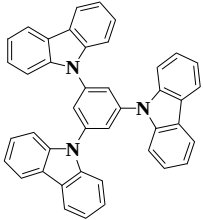
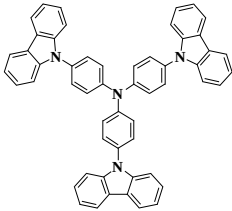
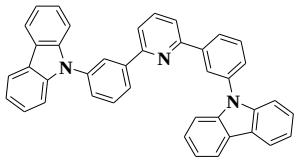
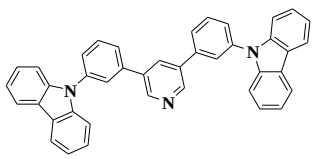
Hole Transport Materials			
ALD-A001 NPB N,N'-Bis(naphthalen-1-yl)-N,N'-bis(phenyl)benzidine		ALD-A002 TPD N,N'-di(3-methylphenyl)-N,N'-di(phenyl)benzidine	
	CAS: 123847-85-8 Formula: C ₄₄ H ₃₂ N ₂ M.W.: 588.74 M.P.: 281-283 °C Abs: 341nm(CH ₂ Cl ₂) PL: 450nm(THF)		CAS: 65181-78-4 Formula: C ₃₈ H ₃₂ 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		ALD-A004 Spiro-TAD 2,2',7,7'-tetrakis(N,N-diphenylamino)-9,9-spirobifluorene	
	CAS: 58473-78-2 Formula: C ₄₆ H ₄₆ N ₂ M.W.: 626.87 Abs: 305nm(THF) PL: 414nm(THF)		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 ₄ TCNQ 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane		ALD-B002 TCNQ 7,7,8,8-tetracyanoquinodimethane	
	CAS: 29261-33-4 Formula: C ₁₂ F ₄ N ₄ M.W.: 276.15 Abs: 258nm(in THF) PL: 402 nm(in THF)		CAS: 1518-16-7 Formula: C ₁₂ H ₄ N ₄ M.W.: 204.19
ALD-B003 PPDN Pyrazino[2,3-f][1,10]phenanthroline-2,3-dicarbonitrile		ALD-B004 CuPC Copper phthalocyanine	
	CAS: 215611-93-1 Formula: C ₁₆ H ₆ N ₆ M.W.: 282.26 Abs: 307 nm (in CH ₂ Cl ₂) PL: 487 nm (in CH ₂ Cl ₂)		CAS: 147-14-8 Formula: C ₃₂ H ₁₆ CuN ₈ M.W.: 576.08 Abs:345,631 nm (in CH ₂ Cl ₂) PL: 404 nm (film)

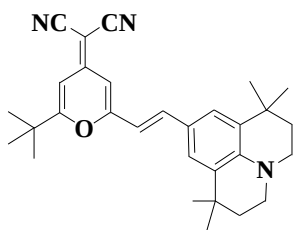
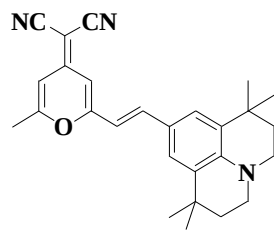
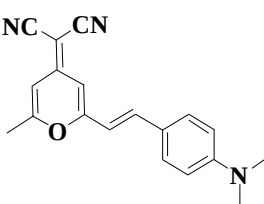
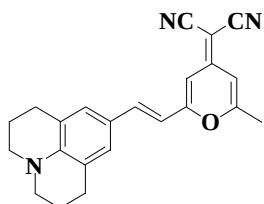
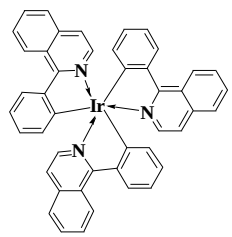
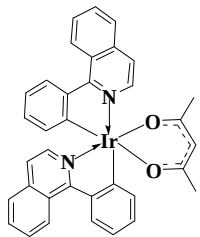
Hole Injection Materials			
ALD-B005 TiOPC Oxytitanium phthalocyanine			
	CAS: 26201-32-1 Formula: C ₃₂ H ₁₆ N ₈ OTi M.W.: 576.39 PL: 392 nm (film)		
Electron Transport Materials/Hole Blocking Materials			
ALD-C001 BCP 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline/Bathocuproine		ALD-C002 Bphen 4,7-diphenyl-1,10-phenanthroline	
	CAS: 4733-39-5 Formula: C ₂₆ H ₂₀ N ₂ M.W.: 360.45 Abs: 277nm(in THF) PL: 386nm(in THF)		CAS: 1662-01-7 Formula: C ₂₄ H ₁₆ N ₂ M.W.: 332.39 M.P: 218-221 °C Abs: 272nm(in THF) PL: 379nm(in THF)
ALD-C003 TPBi 1,3,5-Tri(1-phenyl-1H-benzo[d]imidazol-2-yl)phenyl		ALD-C004 Alq₃ Tris(8-hydroxyquinolino)aluminum	
	CAS: 192198-85-9 Formula: C ₄₅ H ₃₀ N ₆ M.W.: 654.76		CAS: 2085-33-8 Formula: C ₂₇ H ₁₈ AlN ₃ O ₃ M.W.: 459.43 M.P: 413.5-414.5 °C Abs: 382.7nm(in CH ₂ Cl ₂)
ALD-C005 Liq 8-Hydroxyquinolinolato-lithium		ALD-C006 NBphen 2,9-Bis(naphthalen-2-yl)-4,7-diphenyl-1,10-phenanthroline	
	CAS: 850918-68-2 Formula: C ₉ H ₆ NO M.W.: 151.09 Abs: 261nm(in THF) PL: 331nm(in THF)		CAS: 1174006-43-9 Formula: C ₄₄ H ₂₈ N ₂ M.W.: 584.71
ALD-C007 TAZ 3-(Biphenyl-4-yl)-4-phenyl-5-(4-tert-butylphenyl)-4H-1,2,4-triazole		ALD-C008 Be(PP)₂ Bis[2-(2-hydroxyphenyl)-pyridine]beryllium	
	CAS: 150405-69-9 Formula: C ₃₀ H ₂₇ N ₃ M.W.: 429.56 Abs: 290nm(in THF) PL: 390nm(in THF)		CAS: 220694-90-6 Formula: C ₂₂ H ₁₆ BeN ₂ O ₂ M.W.: 349.39

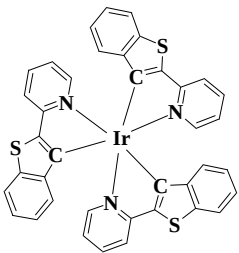
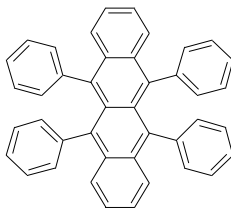
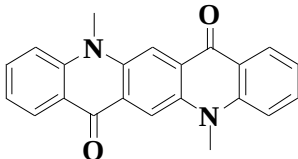
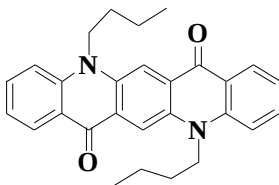
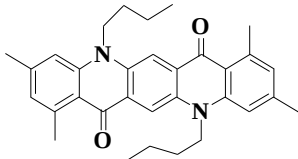
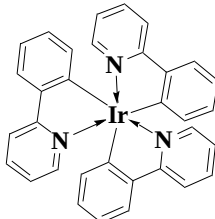
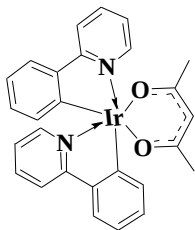
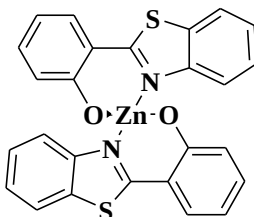
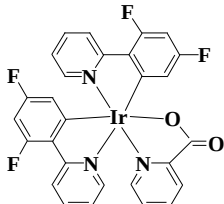
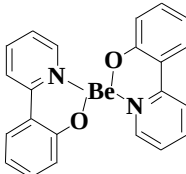
Electron Blocking Materials			
ALD-D001 Ir(PPZ)3 Tris(phenylpyrazole)iridium			
	CAS: 359014-72-5 Formula: C ₂₉ H ₂₀ F ₄ IrN ₃ O ₂ M.W.: 710.70		
Flourescent Host Materials			
ALD-E001 ADN 9,10-Di(naphth-2-yl)anthracene		ALD-E002 4P-NPB N,N'-di-(1-naphthalenyl)-N,N'-diphenyl-[1,1':4',1'':4'',1'''-quaterphenyl]-4,4''-diamine	
	CAS: 122648-99-1 Formula: C ₃₄ H ₂₂ M.W.: 430.54 M.P.: 320 °C Abs: 375, 395nm (in THF) PL: 425nm(THF)		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		ALD-E004 α -ADN 9,10-Di(1-naphthyl)anthracene	
	CAS: 855828-36-3 Formula: C ₃₄ H ₂₂ M.W.: 430.54		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		ALD-F002 mCP 1,3-bis(9H-carbazol-9-yl)benzene	
	CAS: 58328-31-7 Formula: C ₃₆ H ₂₄ N ₂ M.W.: 484.59 M.P.: 281 °C Abs: 292nm(in THF) PL: 369nm(in THF)		CAS: 550378-78-4 Formula: C ₃₀ H ₂₀ N ₂ M.W.: 408.49

Phosphorescent Host

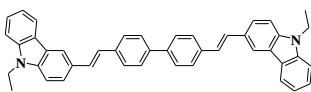
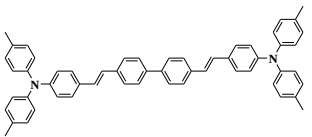
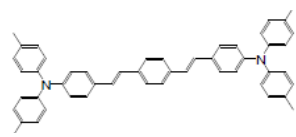
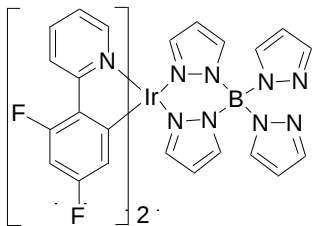
ALD-F003 TCP 1,3,5-tri(9H-carbazol-9-yl)benzene		ALD-F004 TCTA 4,4',4''-Tri(9-carbazoyl)triphenylamine	
	CAS: 148044-07-9 Formula: C ₄₂ H ₂₇ N ₃ M.W.: 573.68 Abs: 292nm(in THF) PL: 343nm(in THF)		CAS: 139092-78-7 Formula: C ₅₄ H ₃₆ N ₄ M.W.: 740.89
ALD-F005 26DCZPPY 2,6-bis(3-(9H-carbazol-9-yl)phenyl)pyridine		ALD-F006 35DCZPPY 3,5-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 ₂ Cl ₂) PL: 410nm (in CH ₂ Cl ₂)		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

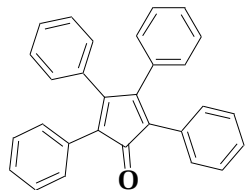
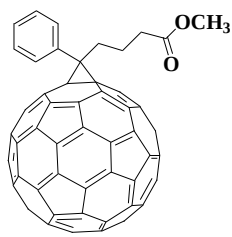
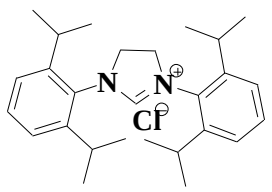
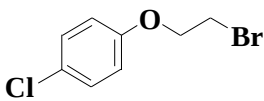
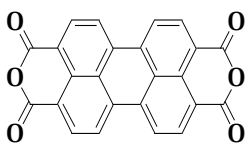
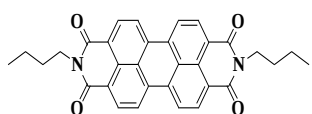
ALD-G001 DCJTb 4-(Dicyanomethylene)-2-tert-butyl-6-(1,1,7,7-tetramethyljulolidin		ALD-G002 DCJT 4-(Dicyanomethylene)-2-methyl-6-(1,1,7,7-tetramethyljulolidin-	
	CAS: 200052-70-6 Formula: C ₃₀ H ₃₅ N ₃ O M.W.: 453.63		CAS: 159788-00-8 Formula: C ₂₇ H ₂₉ N ₃ O M.W.: 411.54
ALD-G003 DCM E)-2-(2-(4-(dimethylamino)styryl)-6-methyl-4H-pyran-4-ylidene)		ALD-G004 DCM2 4-(Dicyanomethylene)-2-methyl-6-julolidinyl-9-enyl-4H-pyran	
	CAS: 51325-91-8 Formula: C ₁₉ H ₁₇ N ₃ O M.W.: 303.36		CAS: 51325-95-2 Formula: C ₂₃ H ₂₁ N ₃ O M.W.: 355.43 Abs: 497nm (in THF) PL: 605nm (in THF)
ALD-G005 Ir(piq)₃ Tris(1-phenyl-isoquinoline) iridium(III)		ALD-G006 Ir(piq)₂(acac) Bis(1-phenyl-isoquinoline)(Acetylacetonato)iridium(III)	
	CAS: 435293-93-9 Formula: C ₄₅ H ₃₀ IrN ₃ M.W.: 804.96		CAS: 435294-03-4 Formula: C ₃₅ H ₂₇ Ir N ₂ O ₂ M.W.: 699.82

ALD-G007 Ir(btpy)3 Tris(2-(benzo[b]thiophen-2-yl)pyridine)iridium(III)		ALD-G008 Rubrene 5,6,11,12-tetraphenylnaphthacene	
	CAS: 405289-74-9 Formula: C ₃₉ H ₂₄ IrN ₃ S ₃ M.W.: 823.08		CAS: 517-51-1 Formula: C ₄₂ H ₂₈ M.W.: 532.67 Abs: 299 nm (in THF) PL: 553 nm (in THF)
Green Dopant Materials			
ALD-H001 DMQA 5,12-Dimethylquinacridone		ALD-H002 DBQA 5,12-Dibutylquinacridone	
	CAS: 19205-19-7 Formula: C ₂₂ H ₁₆ N ₂ O ₂ M.W.: 340.37		CAS: 99762-80-8 Formula: C ₂₈ H ₂₈ N ₂ O ₂ M.W.: 424.53
ALD-H003 TMDBQA 5,12-Dibutyl-1, 3, 8, 10-tetramethylquinacridone		ALD-H004 Ir(ppy) ₃ Tris(2-phenylpyridinato) iridium(III)	
	CAS: 850815-10-0 Formula: C ₃₂ H ₃₆ N ₂ O ₂ M.W.: 480.28		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)		ALD-H006 Zn(BTZ) ₂ Bis[2-(2-benzothiazolyl)phenolato]zinc(II)	
	CAS:337526-85-9 Formula: C ₂₇ H ₂₃ N ₂ O ₂ Ir M.W.: 599.7		CAS: 58280-31-2 Formula: C ₂₆ H ₁₆ N ₂ O ₂ S ₂ Zn M.W.: 517.93
Blue Dopant Materials			
ALD-I001 FIrPic Bis(4,6-difluorophenyl-pyridine) (picolinate)iridium(III)		ALD-I008 Be(PP) ₂ Bis[2-(2-hydroxyphenyl)-pyridine]beryllium	
	CAS:376367-93-0 Formula: C ₂₉ H ₂₀ F ₄ IrN ₃ O ₂ M.W.: 711.11		CAS: 220694-90-6 Formula: C ₂₂ H ₁₆ BeN ₂ O ₂ M.W.: 349.39

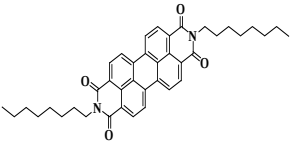
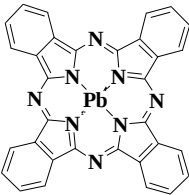
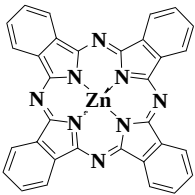
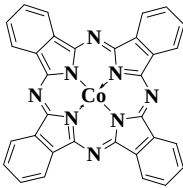
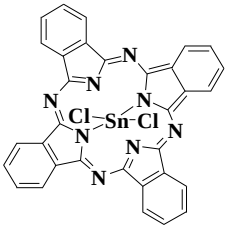
Blue Dopant Materials

ALD-I002 BCzVBi 4,4'-bis(9-ethyl-3-carbazovinylen)-1,1'-biphenyl		ALD-I003 DPAVB 4,4'-bis[4-(di-<i>p</i>-tolylamino)styryl]biphenyl	
 CAS: 475480-90-1 Formula: C₄₄H₃₆N₂ M.W.: 592.77 Abs: 384nm (in THF) PL: 438, 459 nm (in THF)		 CAS: 119586-44-6 Formula: C₅₆H₄₈N₂ M.W.: 748.99 Abs: 405nm (in THF) PL: 475 nm (in THF)	
ALD-I004 DPAVB 4-(di-<i>p</i>-tolylamino)-4'-[(di-<i>p</i>-tolylamino)styryl]stilbene		ALD-I005 FIr6 Bis(2,4-difluorophenylpyridinato)tetrakis(1-pyrazolyl)borate	
 CAS: 596103-58-1 Formula: C₅₀H₄₄N₂ M.W.: 672.90 Abs: 414 nm (in THF) PL: 476 nm (in THF)		 CAS: 664374-03-2 Formula: C₃₅H₂₇N₁₀BF₄Ir 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		ALD-R002 PCBM (6,6)-Phenyl-C61 butyric acid methyl ester	
 CAS: 479-33-4 Formula: C₂₉H₂₀O M.W.: 384.47		 CAS: 160848-22-6 Formula: C₇₂H₁₄O₂ M.W.: 910.88	
ALD-R003 BPMZ 1,3-Bis-(2, 6-diisopropyl)dihydroimidazole		ALD-R004 BCB 1-(2-bromoethoxy)-4-chlorobenzene	
 CAS: 258278-25-0 Formula: C₂₇H₃₉NO₂ M.W.: 427.06		 CAS: 2033-76-3 Formula: C₈H₈BrClO M.W.: 235.51	
ALD-R005 PTCDA 3,4,9,10-Perylenetetracarboxylic dianhydride		ALD-R006 PTCDI-C4 Perylene-3,4,9,10-tetraformyl diimine	
 CAS: 128-69-8 Formula: C₂₄H₈O₆ M.W.: 392.32		 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		ALD-R008 PbPc Lead phthalocyanine	
	CAS: 78151-58-3 Formula: $C_{32}H_{26}N_2O_4$ M.W.: 502.56		CAS: 15187-16-3 Formula: $C_{32}H_{16}N_8Pb$ M.W.: 719.72
ALD-R009 ZnPc Zinc phthalocyanine		ALD-R010 CoPc Cobalt phthalocyanine	
	CAS: 14320-04-8 Formula: $C_{32}H_{16}N_8Zn$ M.W.: 577.91		CAS: 3317-67-7 Formula: $C_{32}H_{16}CoN_8$ M.W.: 571.46
ALD-R011 SnCl₂Pc Phthalocyanine Tin(IV) Dichloride			
	CAS: 18253-54-8 Formula: $C_{32}H_{16}Cl_2N_8Sn$ M.W.: 702.12		