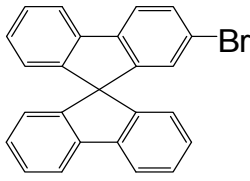
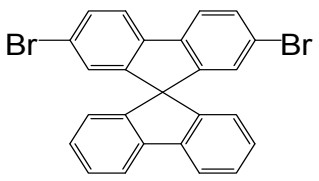
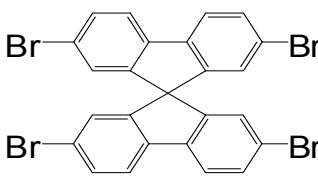
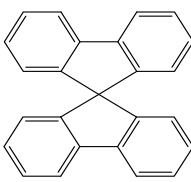
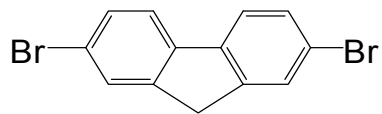
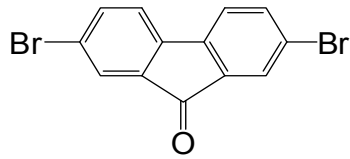
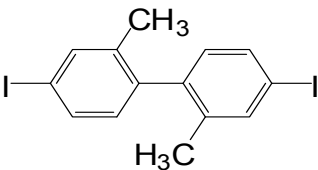
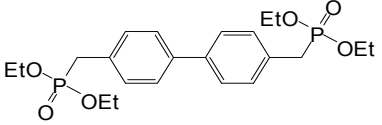
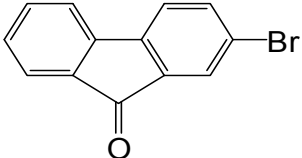
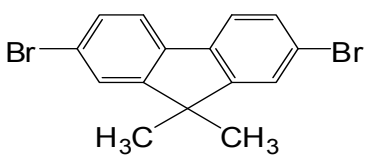
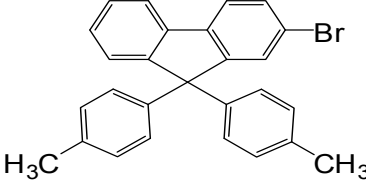
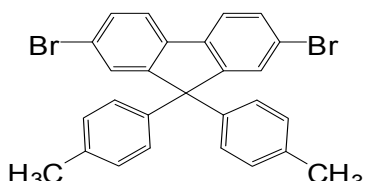
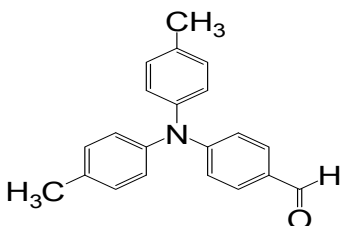
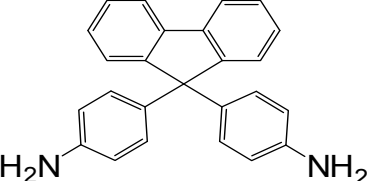
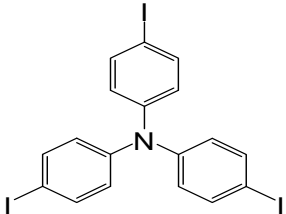
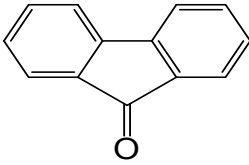
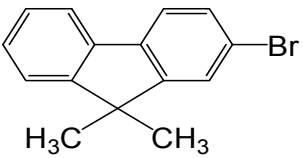
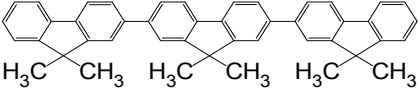
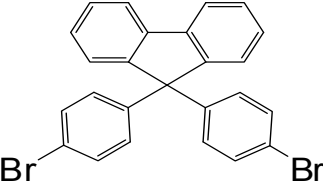
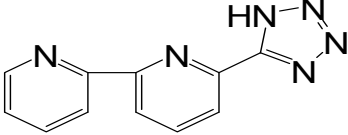
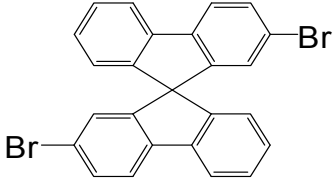
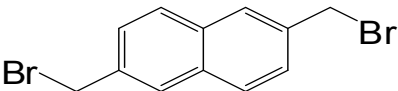
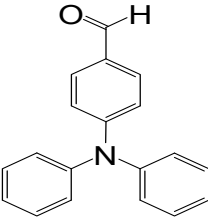
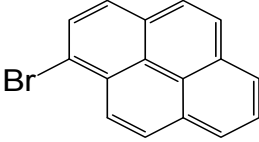
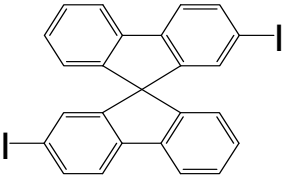
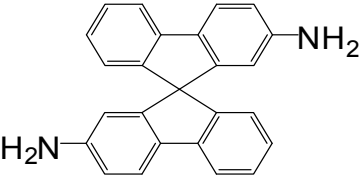
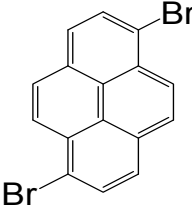
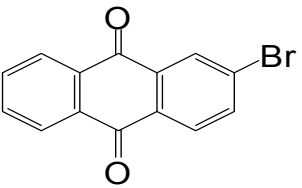
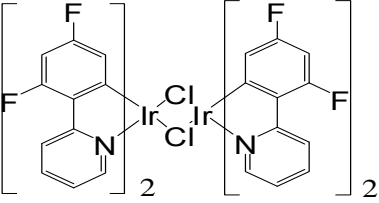
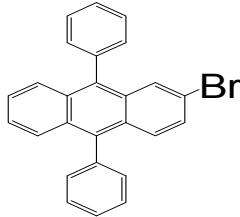
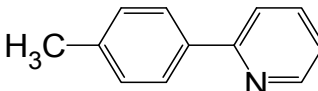
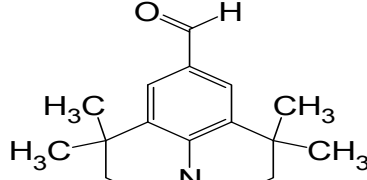
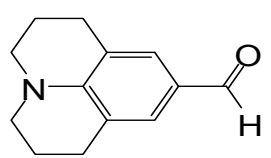
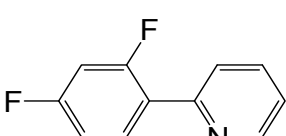
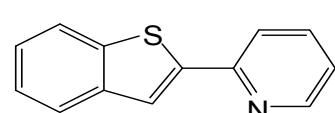
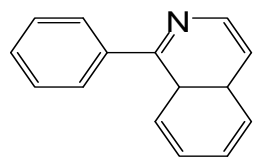
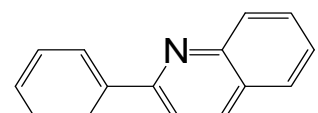
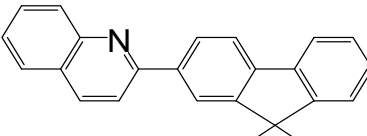
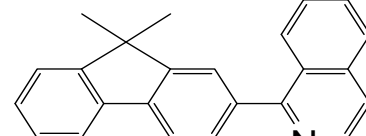
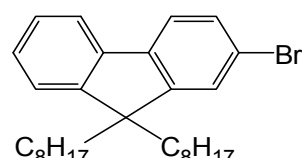
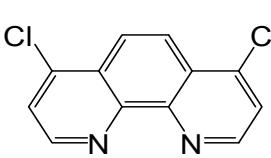
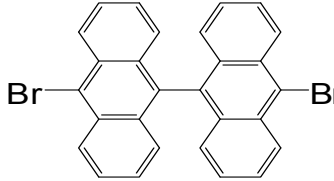
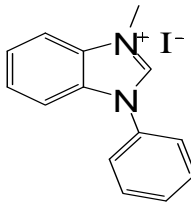
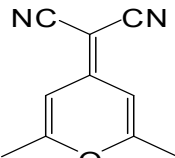
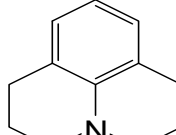
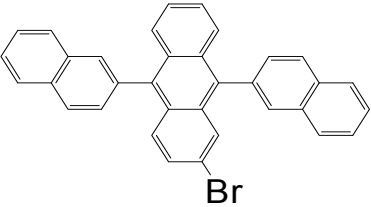
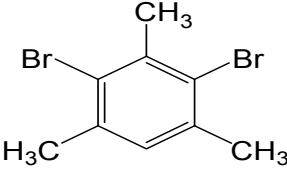
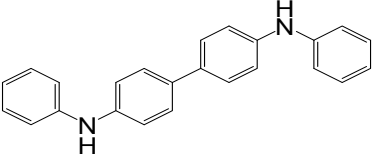
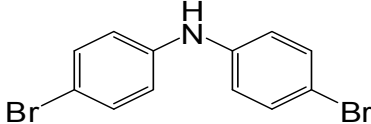
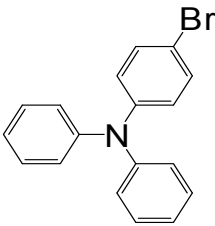
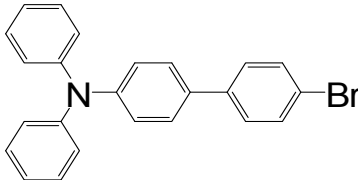
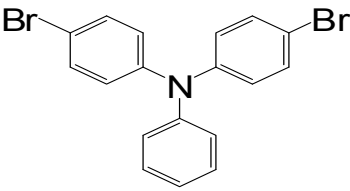
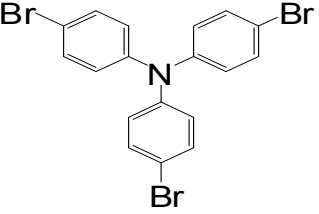
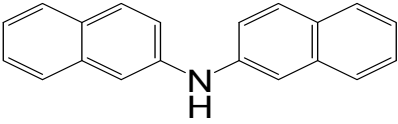
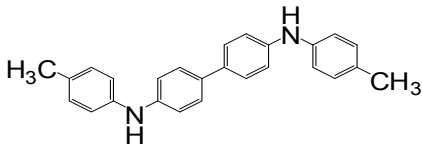
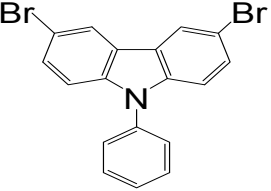
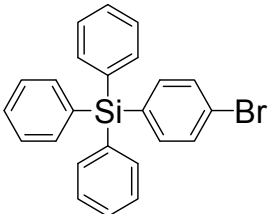
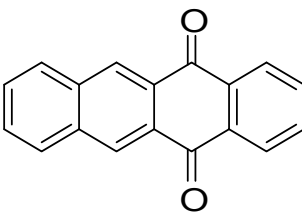
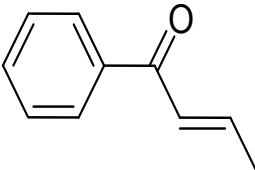
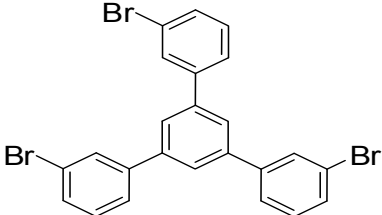


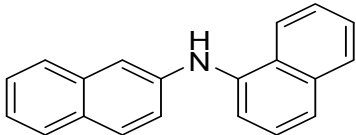
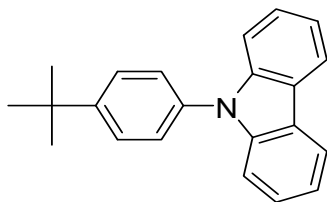
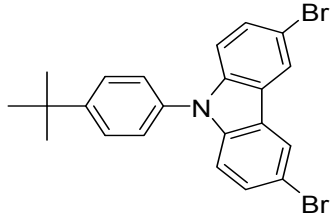
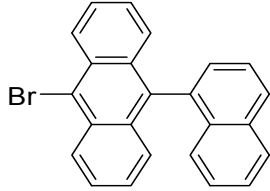
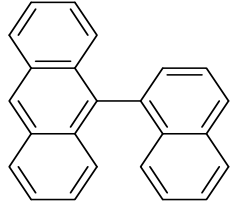
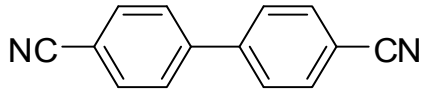
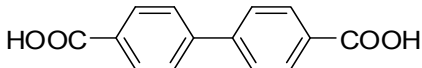
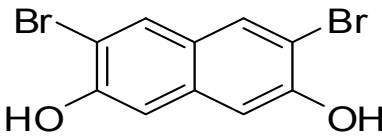
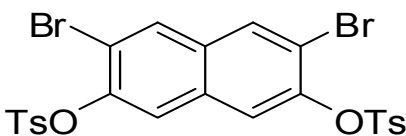
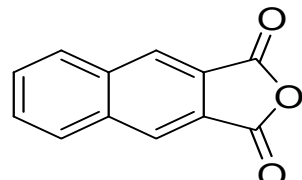
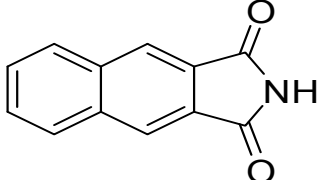
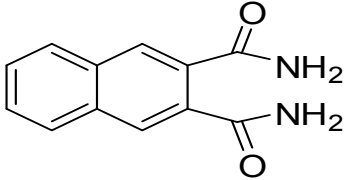
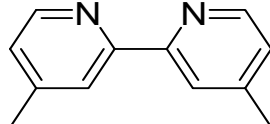
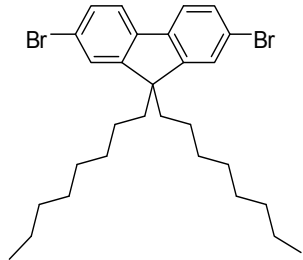
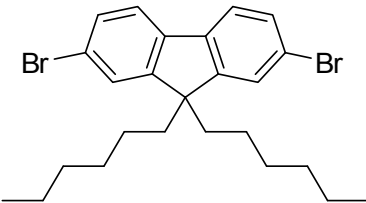
OLED Intermediates

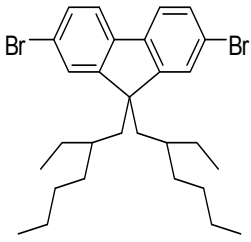
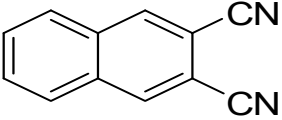
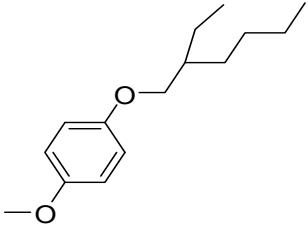
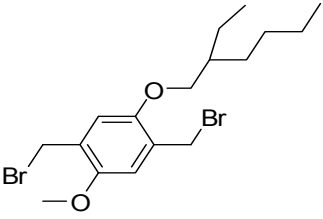

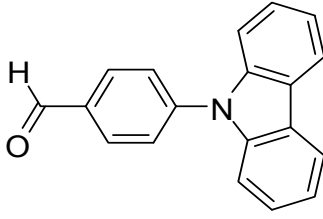
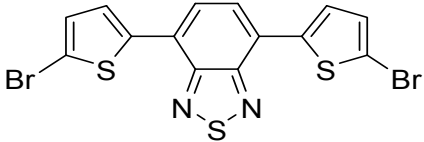
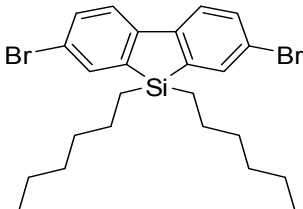
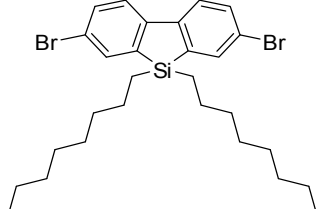
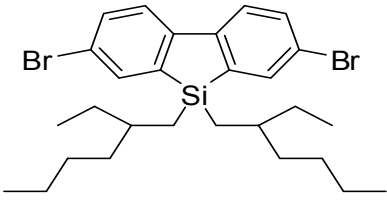
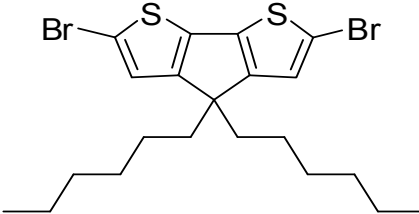
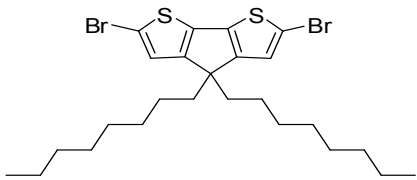
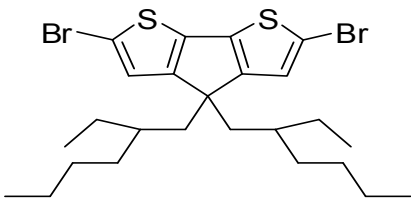
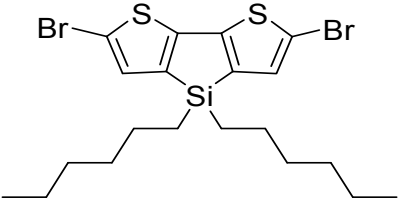
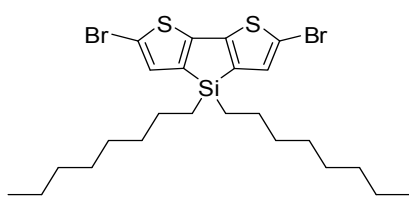
K0001 [171408-76-7]	K0002 [171408-84-7]	K0003 [128055-74-3]
 <p>2-bromo-9,9'-spirobifluorene</p>	 <p>2,7-dibromo-9,9'-spirobifluorene</p>	 <p>2,2',7,7'-tetrabromo-9,9'-spirobifluorene</p>
K0004 [159-66-0]	K0005 [16433-88-8]	K0006 [14348-75-5]
 <p>9,9'-spirobifluorene</p>	 <p>2,7-dibromo-9H-fluorene</p>	 <p>2,7-dibromo-9H-fluorene-9-one</p>
K0007 [69571-02-4]	K0008 [17919-34-5]	K0009 [3096-56-8]
 <p>4,4'-diiodo-2,2'-dimethylbiphenyl</p>	 <p>biphenyl-4,4'-bis (methylphosphonic acid diethyl ester)</p>	 <p>2-bromo-9H-fluorene-9-one</p>
K0010 [28320-32-3]	K0011 [474918-33-7]	K0012 [357645-37-5]
 <p>2,7-dibromo-9,9-dimethyl-9H-fluorene</p>	 <p>2-bromo-9,9-di-p-tolyl-9H-fluorene</p>	 <p>2,7-dibromo-9,9-di-p-tolyl-9H-fluorene</p>
K0013 [42906-19-4]	K0014 [15499-84-0]	K0019 [4181-20-8]
 <p>4-(N,N-di-p-tolylamino)benzaldehyde</p>	 <p>4,4'-(9H-fluorene-9,9-diyl)dianiline</p>	 <p>tris(4-iodophenyl)amine</p>

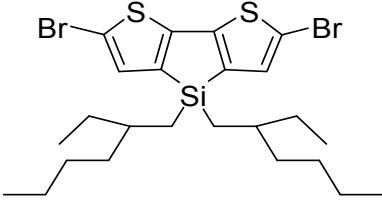
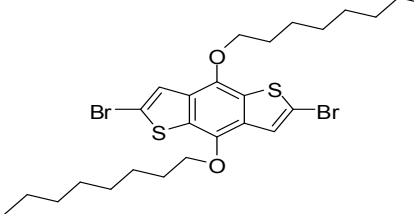
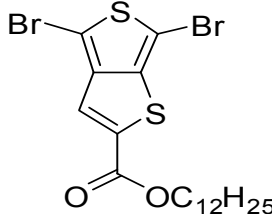
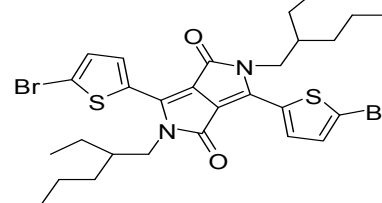
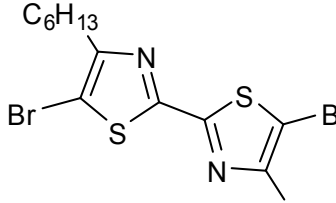
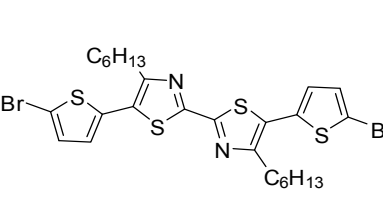
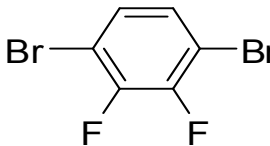
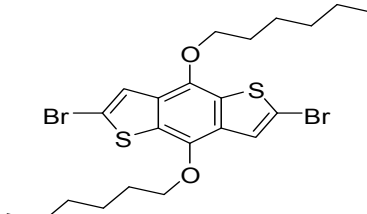
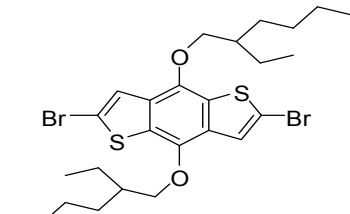
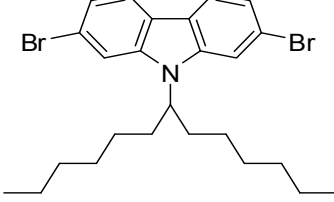
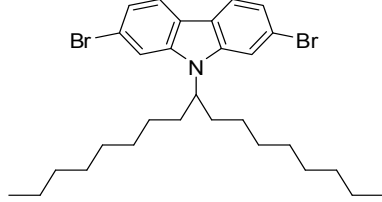
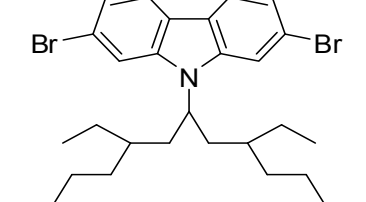
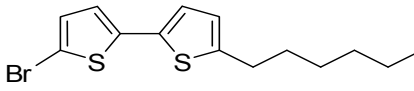
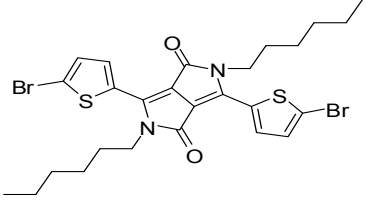
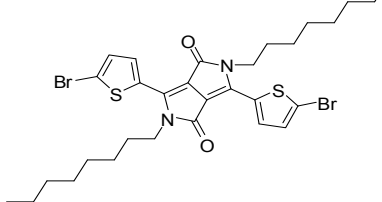
K0020	[486-25-9]	K0023	[28320-31-2]	K0024	[851478-90-5]
 <p>9H-fluoren-9-one</p>		 <p>2-bromo-9,9-dimethyl-9H-fluorene</p>		 <p>2,7-di(9,9-dimethyl fluoren-2-yl)-9,9-dimethyl-fluorene</p>	
K0025	[128406-10-0]	K0026	[866117-17-1]	K0027	[67665-47-8]
 <p>9,9-bis(4-bromophenyl)-9H-fluorene</p>		 <p>6-(1H-tetrazol-5-yl)-2,2'-bipyridine</p>		 <p>2,2'-dibromo-9,9'-spirobifluorene</p>	
K0028	[4542-77-2]	K0030	[4181-05-9]	K0031	[1714-29-0]
 <p>2,6-bis(bromomethyl)naphthalene</p>		 <p>4-(diphenylamino)benzaldehyde</p>		 <p>1-bromo-pyrene</p>	
K0032	[790674-48-5]	K0033	[67665-45-6]	K0034	[27973-29-1]
 <p>2,2'-diiodo-9,9'-spirobifluorene</p>		 <p>9,9'-spirobifluorene-2,2'-diamine</p>		 <p>1,6-dibromopyrene</p>	
K0035	[572-83-8]	K0036	[562824-27-5]	K0037	[201731-79-5]
 <p>2-bromoanthracene-9,10-dione</p>		 <p>Di-μ-chlorotetrakis[3,5-difluoro-2-(2-pyridinyl-κN)phenyl-κC]di-iridium</p>		 <p>2-bromo-9,10-diphenylanthracene</p>	

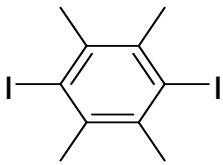
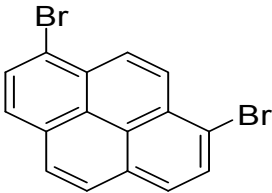
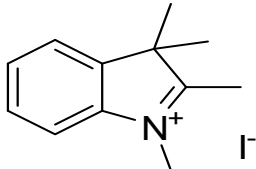
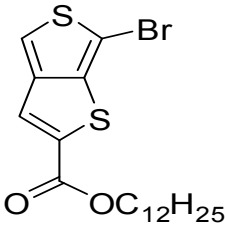
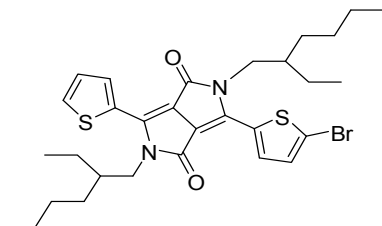
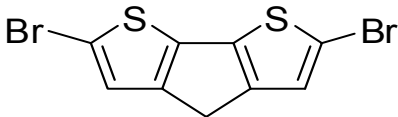
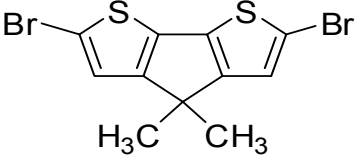
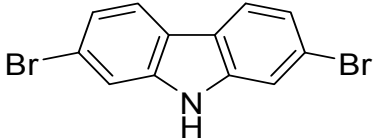
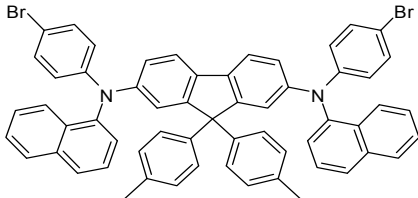
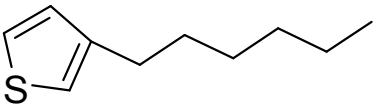
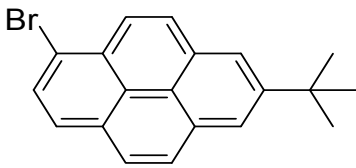
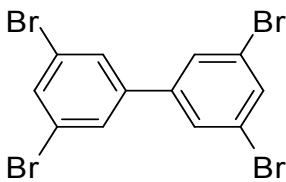
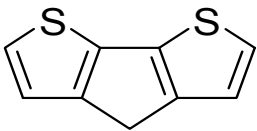
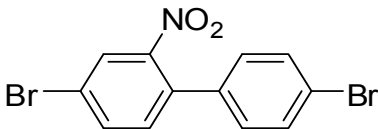
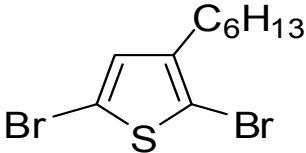
K0039	[4467-06-5]	K0040	[216978-79-9]	K0041	[33985-71-6]
					
2-p-tolylpyridine		1,1,7,7-tetramethyl-1,2,3,5,6,7-hexahydro pyrido[3,2,1-ij]quinoline-9-carbaldehyde		1,2,3,5,6,7-hexahydropyrido[3,2,1-ij]quinoline-9-carbaldehyde	
K0042	[391604-55-0]	K0043	[38210-35-4]	K0044	[3297-72-1]
					
2-(2,4-difluorophenyl)pyridine		2-(benzo[b]thiophen-2-yl)pyridine		1-phenylisoquinoline	
K0045	[612-96-4]	K0046	[889750-37-2]	K0047	[435277-99-9]
					
2-phenylquinoline		2-(9,9-dimethyl-9H-fluoren-2-yl)quinoline		1-(9,9-dimethyl-9H-fluoren-2-yl)isoquinoline	
K0050	[302554-80-9]	K0052	[5394-23-0]	K0054	[121848-75-7]
					
2-bromo-9,9-dioctyl-9H-fluorene		4,7-dichloro-1,10-phenanthroline		10,10'-dibromo-9,9'-bianthracene	
K0055	[39778-14-8]	K0056	[28286-88-6]	K0057	[479-59-4]
					
3-methyl-1-phenyl-1H-benzo[d]imidazol-3-ium iodide		2-(2,6-dimethyl-4H-pyran-4-ylidene) malononitrile		julolidine	

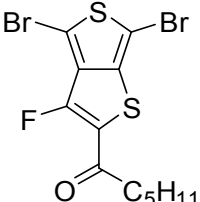
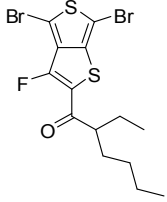
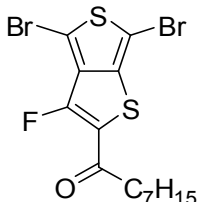
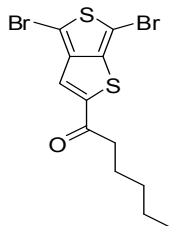
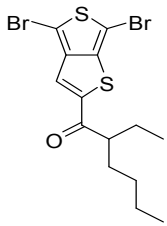
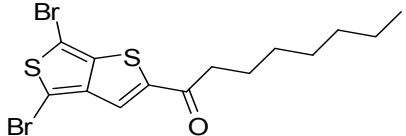
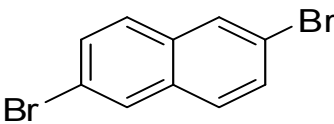
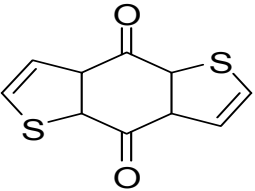
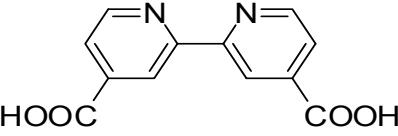
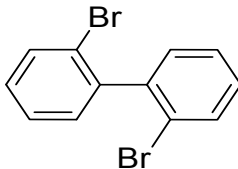
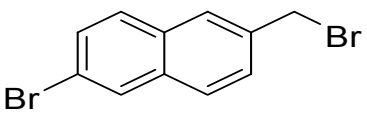
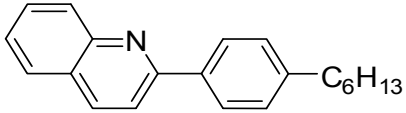
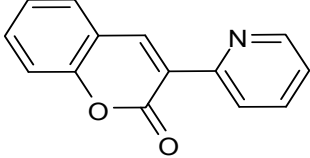
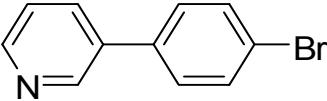
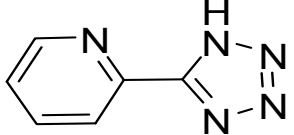
K0058	[474688-76-1]	K0059	[6942-99-0]	K0060	[531-91-9]
					
2-bromo-9,10-di(naphthalen-2-yl)anthracene		2,4-dibromo-1,3,5-trimethylbenzene		N,N'-diphenyl-benzidine	
K0061	[16292-17-4]	K0062	[36809-26-4]	K0063	[202831-65-0]
					
4,4'-Dibromodiphenylamine		4-Bromotriphenylamine		4-Bromo-4'-(diphenylamino)biphenyl	
K0064	[81090-53-1]	K0065	[4316-58-9]	K0066	[532-18-3]
					
N,N-Bis(p-bromophenyl)aniline		Tris(4-bromophenyl)amine		2,2'-Dinaphthylamine	
K0067	[10311-61-2]	K0068	[57103-20-5]	K0069	[18737-40-1]
					
N,N'-Bis(4-methylphenyl)benzidine		3,6-Dibromo-9-phenylcarbazole		(4-Bromophenyl)triphenylsilane	
K0070	[1090-13-7]	K0071	[35845-66-0]	K0072	[96761-85-2]
					
Tetracene-5,12-dione		(E)-1-Phenylbut-2-en-1-one		1,3,5-Tris(3-bromophenyl)benzene	

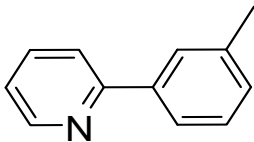
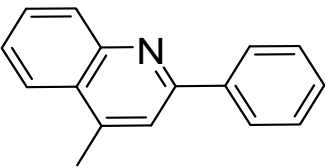
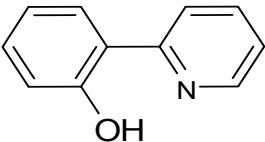
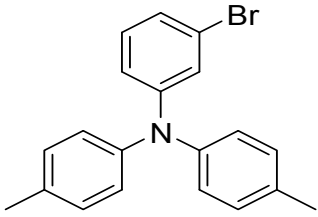
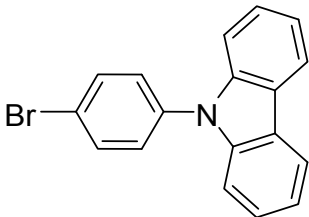
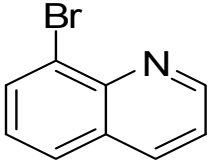
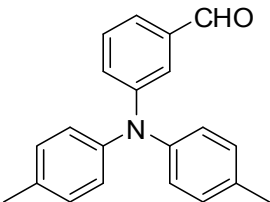
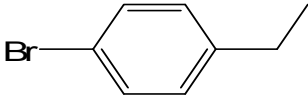
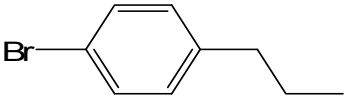
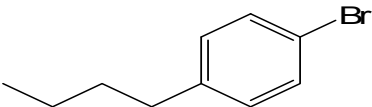
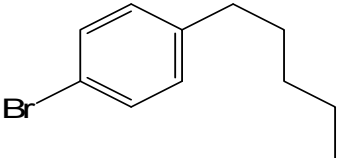
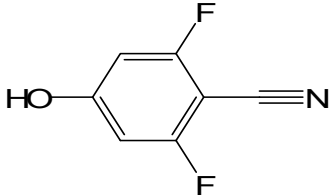
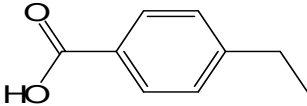
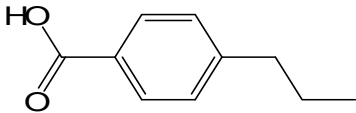
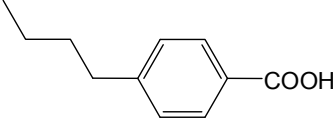
K0073	[4669-06-1]	K0074		K0075	
 <p>1,2-Dinaphthylamine</p>		 <p>9-(4-tert-butylphenyl)-9H-carbazole</p>		 <p>3,6-dibromo-9-(4-tert-butylphenyl)-9H-carbazole</p>	
K0076		K0077		K0078	[1591-30-6]
 <p>9-bromo-10-(naphthalen-1-yl)anthracene</p>		 <p>9-(naphthalen-1-yl)anthracene</p>		 <p>biphenyl-4,4'-dicarbonitrile</p>	
K0079	[787-70-2]	K0080	[96965-79-6]	K0081	
 <p>biphenyl-4,4'-dicarboxylic acid</p>		 <p>3,6-dibromonaphthalene-2,7-diol</p>		 <p>3,6-dibromonaphthalene-2,7-diyl bis(4-methylbenzenesulfonate)</p>	
K0082	[716-39-2]	K0083		K0084	
 <p>naphtho[2,3-c]furan-1,3-dione</p>		 <p>1H-benzof[isoindole]-1,3(2H)-dione</p>		 <p>naphthalene-2,3-dicarboxamide</p>	
K0085	[1134-35-6]	K0086	[198964-46-4]	K0087	[189367-54-2]
 <p>4,4'-dimethyl-2,2'-bipyridine</p>		 <p>2,7-dibromo-9,9-dioctyl-9H-fluorene</p>		 <p>2,7-dibromo-9,9-dihexyl-9H-fluorene</p>	

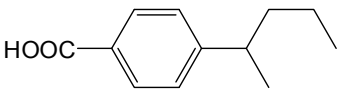
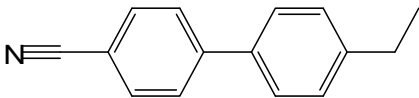
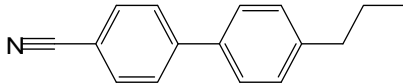
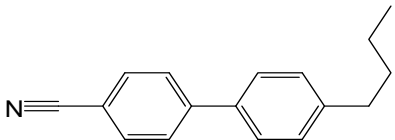
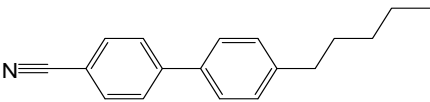
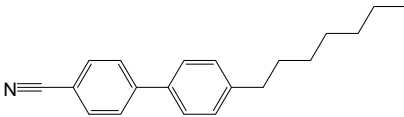
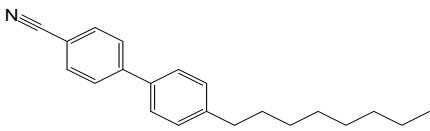
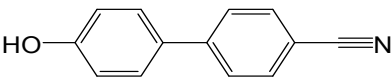
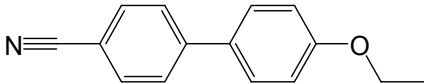
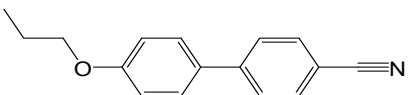
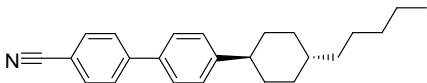
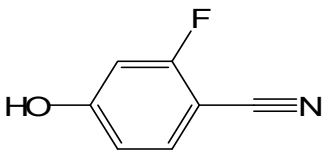
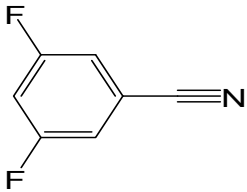
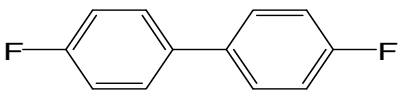
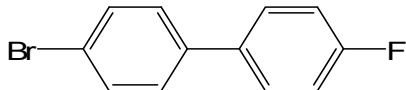
K0088 [188200-93-3]	K0089 [22856-30-0]	K0090
 <p>2,7-dibromo-9,9-bis(2-ethylhexyl)-9H-fluorene</p>	 <p>naphthalene-2,3-dicarbonitrile</p>	 <p>1-(2-ethylhexyloxy)-4-methoxybenzene</p>
K0091	K0092 [15155-41-6]	K0093
 <p>1,4-bis(bromomethyl)-2-(2-ethylhexyloxy)-5-methoxybenzene</p>	 <p>4,7-dibromobenzo[c][1,2,5]thiadiazole</p>	 <p>4-(9H-carbazol-9-yl)benzaldehyde</p>
K0094 [288071-87-4]	K0095 [852138-90-0]	K0096 [891182-24-4]
 <p>4,7-bis(5-bromothiophen-2-yl)benzo[c][1,2,5]thiadiazole</p>	 <p>3,7-dibromo-5,5-dihexyl-5H-dibenzo[b,d]silole</p>	 <p>3,7-dibromo-5,5-dioctyl-5H-dibenzo[b,d]silole</p>
K0097	K0098 [528570-55-0]	K0099 [478404-10-3]
 <p>3,7-dibromo-5,5-bis(2-ethylhexyl)-5H-dibenzo[b,d]silole</p>	 <p>2,6-dibromo-4,4-dihexyl-4H-cyclopenta[2,1-b;3,4-b']dithiophene</p>	 <p>2,6-dibromo-4,4-di-octyl-4H-cyclopenta[2,1-b;3,4-b']dithiophene</p>
K0100 [365547-21-3]	K0101 [188690-66-6]	K0102
 <p>2,6-dibromo-4,4-di-(2-ethylhexyl)-4H-cyclopenta[2,1-b;3,4-b']dithiophene</p>	 <p>(4,4'-bis(2-hexyl)dithieno[3,2-b:2',3'-d]silole</p>	 <p>(4,4'-bis(2-octyl)dithieno[3,2-b:2',3'-d]silole</p>

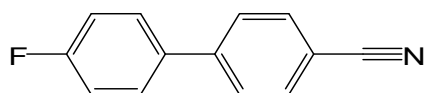
K0103 [1089687-05-7]	K0104	K0105 [1098102-93-2]
 <p>(4,4'-bis(2-ethylhexyl)dithieno[3,2-b:2',3'-d]silole</p>	 <p>2,6-dibromo-4,8-dioctyl-benzo[1,2-b:4,5-b']dithiophene</p>	 <p>dodecyl 4,6-dibromothieno[3,4-b]thiophene-2-carboxylate</p>
K0106 [1000623-95-9]	K0107 [180729-93-5]	K0108 [853722-91-5]
 <p>3,6-bis(5-bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione</p>	 <p>5,5'-dibromo-4,4'-dihexyl-2,2'-bithiazole</p>	 <p>5,5'-bis(5-bromothiophen-2-yl)-4,4'-dihexyl-2,2'-bithiazole</p>
K0109	K0110 [359017-65-5]	K0111
 <p>1,4-dibromo-2,3-difluorobenzene</p>	 <p>2,6-dibromo-4,8-dihexyl-benzo[1,2-b:4,5-b']dithiophene</p>	 <p>2,6-dibromo-4,8-di(2-ethylhexyloxy)-benzo[1,2-b:4,5-b']dithiophene</p>
K0112	K0113 [955964-73-5]	K0114
 <p>2,7-dibromo-9-(tridecan-7-yl)-9H-carbazole</p>	 <p>2,7-dibromo-9-(heptadecan-9-yl)-9H-carbazole</p>	 <p>2,7-dibromo-9-(5,9-diethyltridecan-7-yl)-9H-carbazole</p>
K0115	K0116	K0117 [1057401-13-4]
 <p>5-bromo-5'-hexyl-2,2'-bithiophene</p>	 <p>3,6-bis(5-bromothiophen-2-yl)-2,5-dihexylpyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione</p>	 <p>3,6-bis(5-bromothiophen-2-yl)-2,5-dioctylpyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione</p>

K0118	[3268-21-1]	K0119	[38303-35-4]	K0120	[5418-63-3]
					
1,4-diiodo-2,3,5,6-tetramethylbenzene		1,8-dibromopyrene		1,2,3,3-Tetramethyl-3H-indolium iodide	
K0121		K0122		K0123	
					
dodecyl 6-bromothieno[3,4-b]thiophene-2-carboxylate		3-(5-bromothiophen-2-yl)-2,5-bis(2-ethylhexyl)-6-(thiophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione		2,6-Dibromo-4H-Cyclopenta[2,1-b:3,4-b']dithiophene	
K0124		K0125	[136630-39-2]	K0126	
					
2,6-Dibromo-4,4-dimethylcyclopenta [2,1-b:3,4-b']dithiophene		2,7-dibromo-9H-carbazole		N2,N7-bis(4-bromophenyl)-N2,N7-di(naphthalen-1-yl)-9,9-dip-tolyl-9H-fluorene-2,7-diamine	
K0127	[1693-86-3]	K0128		K0129	[16400-50-3]
					
3-hexylthiophene		1-bromo-7-tert-butylpyrene		3,3',5,5'-tetrabromobiphenyl	
K0130		K0131		K0132	[116971-11-0]
					
4H-Cyclopenta[2,1-b:3,4-b']dithiophene		4,4'-dibromo-2-nitrobiphenyl		2,5-dibromo-3-hexylthiophene	

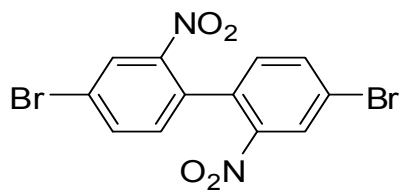
K0133	K0134	K0135
 <p>1-(4,6-dibromo-3-fluorothieno[2,3-c]thiophen-2-yl)hexan-1-one</p>	 <p>1-(4,6-dibromo-3-fluorothieno[2,3-c]thiophen-2-yl)-2-ethylhexan-1-one</p>	 <p>1-(4,6-dibromo-3-fluorothieno[2,3-c]thiophen-2-yl)octan-1-one</p>
K0136	K0137	K0138
 <p>1-(4,6-dibromothieno[2,3-c]thiophen-2-yl)hexan-1-one</p>	 <p>1-(4,6-dibromothieno[2,3-c]thiophen-2-yl)-2-ethylhexan-1-one</p>	 <p>1-(4,6-dibromothieno[2,3-c]thiophen-2-yl)octan-1-one</p>
K0139	K0140	K0141
<p>[13720-06-4]</p>  <p>2,6-dibromonaphthalene</p>	<p>[305798-02-1]</p>  <p>4,8-Dihydrobenzo[1,2-b:4,5-b'] dithiophen-4,8-dione</p>	<p>[6813-38-3]</p>  <p>2,2'-bipyridine-4,4'-dicarboxylic acid</p>
K0142	K0143	K0144
<p>[13029-09-9]</p>  <p>2,2'-dibromobiphenyl</p>	 <p>2-bromo-6-(bromomethyl)naphthalene</p>	 <p>2-(4-hexylphenyl)quinoline</p>
K0145	K0146	K0147
 <p>3-(pyridin-2-yl)-2H-chromen-2-one</p>	 <p>3-(4-bromophenyl)pyridine</p>	 <p>2-(1H-tetrazol-5-yl)pyridine</p>

K0148	K0149 [4789-76-8]	K0150
 <p>2-m-tolylpyridine</p>	 <p>4-methyl-2-phenylquinoline</p>	 <p>2-(pyridin-2-yl)phenol</p>
K0151	K0152 [57102-42-8]	K0153 [16567-18-3]
 <p>3-bromo-N,N-dip-tolylaniline</p>	 <p>9-(4-bromophenyl)-9H-carbazole</p>	 <p>8-bromoquinoline</p>
K0154	K0162 [1585-07-5]	K0163 [588-93-2]
 <p>3-(dip-tolylamino)benzaldehyde</p>	 <p>4-ethyl-bromobenzene</p>	 <p>4-propyl-bromobenzene</p>
K0164 [41492-05-1]	K0165 [51554-95-1]	K0167 [123843-57-2]
 <p>4-butyl-bromobenzene</p>	 <p>4-pentyl-bromobenzene</p>	 <p>3,5-Difluoro-4-cyano phenol</p>
K0168 [619-64-7]	K0169 [2438-05-3]	K0170 [20651-71-2]
 <p>4-ethyl benzoic acid</p>	 <p>4-propyl benzoic acid</p>	 <p>4-butyl benzoic acid</p>

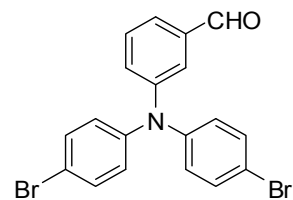
K0171	[26311-45-5]	K0178	[58743-75-2]	K0179	[58743-76-3]
					
4-pentyl benzoic acid		4-cyano-4'-ethylbiphenyl		4-cyano-4'-propylbiphenyl	
K0180	[52709-83-8]	K0181	[40817-08-1]	K0182	[41122-71-8]
					
4-cyano-4'-butylbiphenyl		4-cyano-4'-pentylbiphenyl		4-cyano-4'-heptylbiphenyl	
K0183	[52709-84-9]	K0184	[19812-93-2]	K0185	[58743-78-5]
					
4-cyano-4'-octylbiphenyl		4'-Hydroxy-4-biphenylcarbonitrile		4-ethoxy-4'-cyanobiphenyl	
K0186	[52709-86-1]	K0187	[68065-81-6]	K0192	[82380-18-5]
					
4-propoxy-4'-cyanobiphenyl		trans-4'-(4-Pentylcyclohexyl)-4-biphenylcarbonitrile		3-fluoro-4cyanopehenol	
K0193	[64248-63-1]	K0194	[398-23-2]	K0195	[398-21-0]
					
3,5difluoro-cyanobenzene		4-4'-difluorobiphenyl		4-fluoro-4'-bromobiphenyl	

K0196

4-fluoro-4'-biphenylcarbonitrile

K0211

4,4'-dibromo-2,2'-dinitrobiphenyl

K0215

3-(bis(4-bromophenyl)amino)benzaldehyde