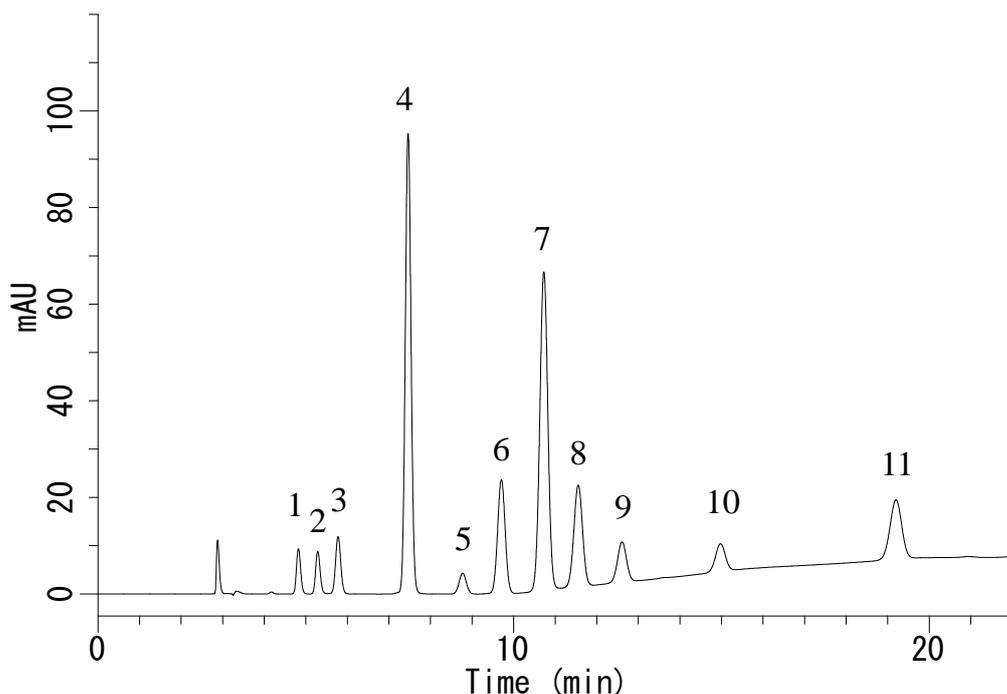


## Analysis of Organic electroluminescence materials

Data No. LB249-0785



### Conditions

**System** : GL7700 HPLC system  
**Column** : Inertsil ODS-3V  
(5  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-01802  
**Eluent** : A) CH<sub>3</sub>CN  
B) THF  
A/B = 100/0 - 5 min - 100/0 - 15 min - 95/5 -  
20 min - 95/5, v/v  
**Flow Rate** : 1.0 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 254 nm (UV7750 UV Detector)  
**Injection Vol.** : 5  $\mu$  L  
**Sample** : Standard

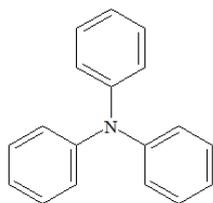
### Analyte:

1. Triphenylamine  
2. Bis(4-tert-butylphenyl)amine  
3. 2-(4-Biphenyl)-5-(4-tert-butylphenyl)-1,3,4-oxadiazole  
4. 9,10-Diphenylanthracene  
5. Impurity  
6. 4,4'-Bis(9H-carbazol-9-yl)biphenyl  
7. 9,10-Di(2-naphthyl)anthracene  
8. 1,3,5-Tri(9H-carbazol-9-yl)benzene  
9. N,N'-Diphenyl-N,N'-di(m-tolyl)benzidine  
10. 5,6,11,12-Tetraphenylnaphthacene  
11. 4,4',4''-Tri-9-carbazolyltriphenylamine  
(10  $\mu$  g/mL each)

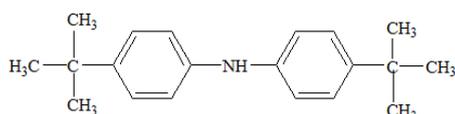
## Analysis of Organic electroluminescence materials

Data No. LB249-0785

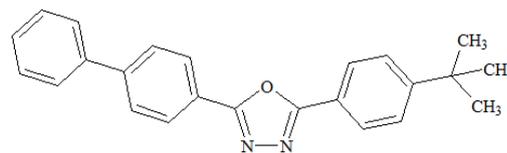
### Chemical Structure



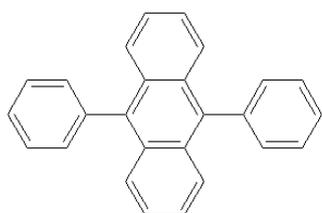
1. Triphenylamine



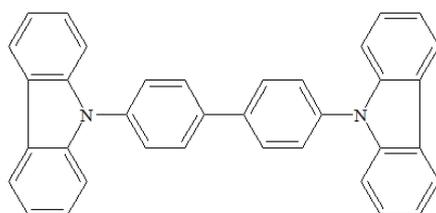
2. Bis(4-tert-butylphenyl)amine



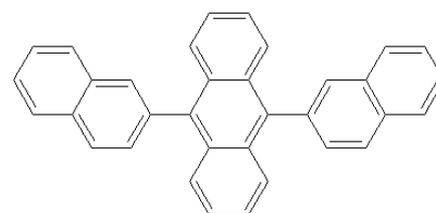
3. 2-(4-Biphenyl)-5-(4-tert-butylphenyl)-1,3,4-oxadiazole



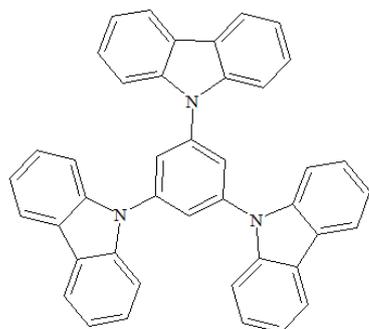
4. 9,10-Diphenylanthracene



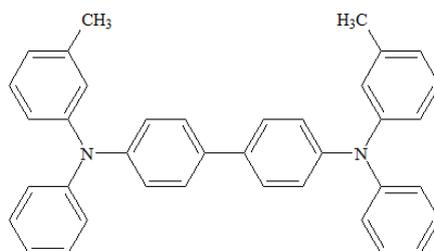
6. 4,4'-Bis(9H-carbazol-9-yl)biphenyl



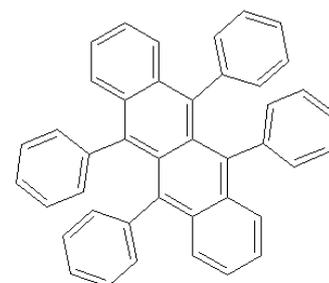
7. 9,10-Di(2-naphthyl)anthracene



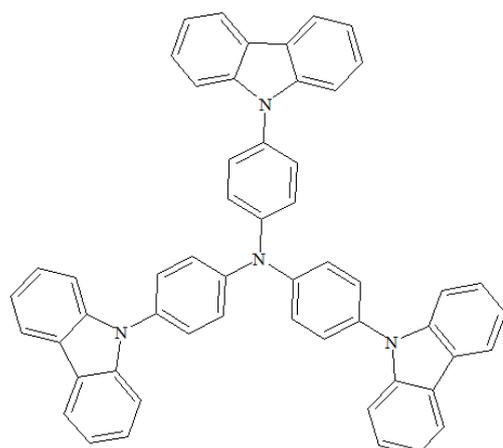
8. 1,3,5-Tri(9H-carbazol-9-yl)benzene



9. N,N'-Diphenyl-N,N'-di(m-tolyl)benzidine



10. 5,6,11,12-Tetraphenylnaphthacene



11. 4,4',4''-Tri-9-carbazolyltriphenylamine

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.