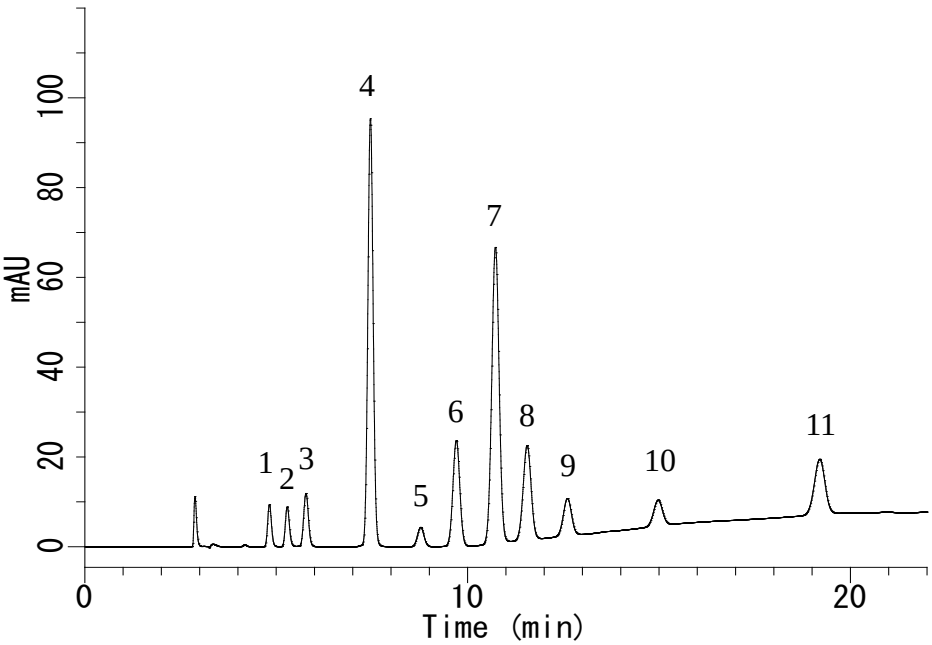
Analysis of Organic electroluminescence materials



Conditions

System	:	GL7700 HPLC system
Column	:	Inertsil ODS-3V (5 μm, 250 x 4.6 mm I.D.)
Column Cat. No.	:	5020-01802
Eluent	:	A) CH_3CN 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 ℃
Detection	:	UV 254 nm (UV7750 UV Detector)
Injection Vol.	:	5 μL
Sample	:	Standard

Analyte:

1. Triphenylamine
2. Bis(4-tert-butylphenyl)amine
3. 2-(4-Biphenylyl)-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 μg/mL each)

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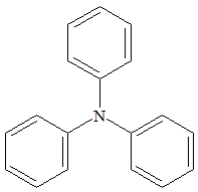
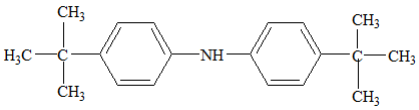
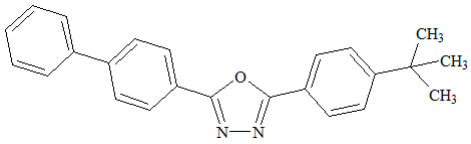
Chemical Structure



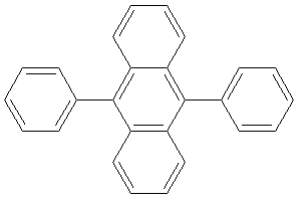
1. Triphenylamine



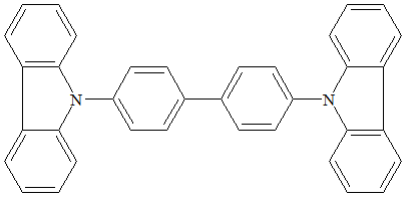
2. Bis(4-tert-butylphenyl)amine



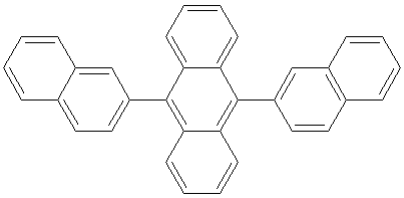
3. 2-(4-Biphenylyl)-5-(4-tert-butylphenyl)-1,3,4-oxadiazole



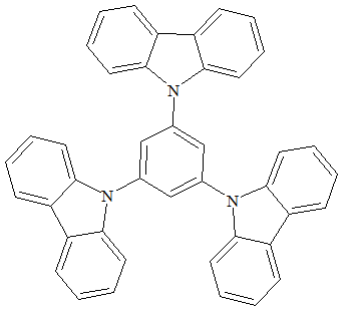
4. 9,10-Diphenylanthracene



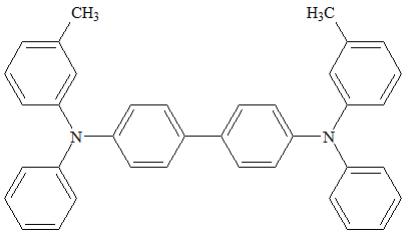
6. 4,4'-Bis(9H-carbazol-9-yl)biphenyl



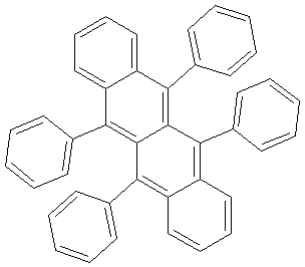
7. 9,10-Di(2-naphthyl)anthracene



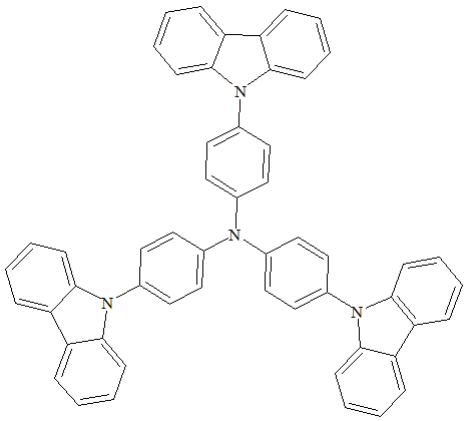
8. 1,3,5-Tri(9H-carbazol-9-yl)benzene



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



10. 5,6,11,12-Tetraphenylnaphthacene



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