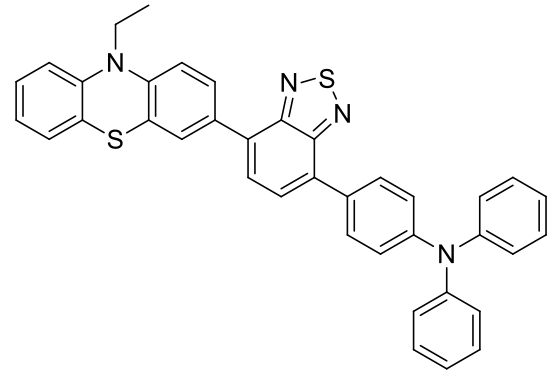


Efficient red fluorescent OLEDs based on aggregation-induced emission combined with hybridized local and charge transfer state

Product Specifications

LT-N4225	PBTPA
Grade	Sublimed, >99%
PL	628 nm (Toluene)
UV	314, 461 nm (Toluene)
Formula	C ₃₈ H ₂₈ N ₄ S ₂
HOMO/LUMO	-4.98/-3.10 eV
M.W.	604.79 g/mole



*Reference: *Dyes and Pigments*, 2021, 184, 108770

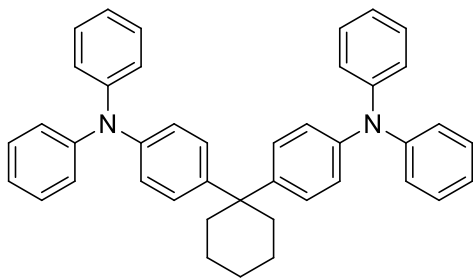
Features

- In this study, they designed the D–A–D-structured, this design idea of **AIE** combined with **HLCT** demonstrates the great potential for the manufacture of **PBTPA**-based efficient **red-light fluorescent emitters**.
- The **non-doped device** fabricated using **PBTPA** achieved red light emission at **656 nm** with **CIE coordinates of (0.65, 0.32)** and **EQE of 1.62%**, and the exciton utilization reached a value of 50%.

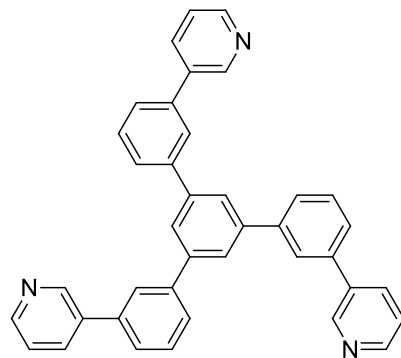
Device Application

Device: ITO / HAT-CN / TAPC / PBTPA / TmPyPB / LiF / Al.

Related products from Lumtec:



LT-N137 TAPC



LT-N863 TmPyPB

