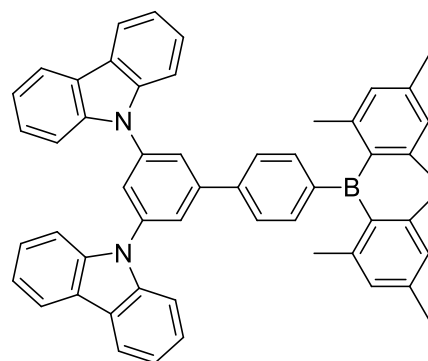


Synthesis, crystal structure, aggregation-induced emission enhancement and electroluminescence properties of a novel compound containing carbazole and triarylborane groups

Product Specifications

LT-N4224	DB-BCZ
Grade	Sublimed, >99%
PL	424 nm (films)
Formula	C ₅₄ H ₄₅ BN ₂
HOMO/LUMO	-5.39/-2.02 eV
M.W.	732.76 g/mole



*Reference: Journal of Molecular Structure, 2021, 1228, 129721

Features

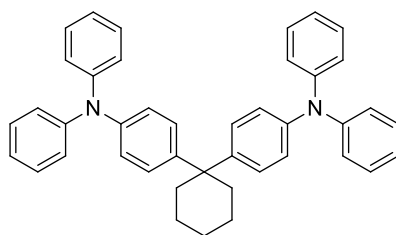
● In this study, a new compound **DB-BCZ** was synthesized by using carbazole as electron-donors and triarylborane as an electron-acceptor.

● The non-doped OLED employing DB-BCZ as emitting layer displays bluish-violet emission, and exhibits a turn-on voltage of 5.6 V, a **maximum luminance of 5374 cd m⁻²**, a **maximum current efficiency of 2.26 cd A⁻¹** and a **maximum power efficiency of 0.96 lm W⁻¹**.

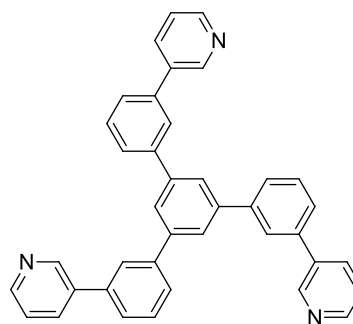
Device Application

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

Related products from Lumtec:



LT-N137 TAPC



LT-N863 TmPyPB

