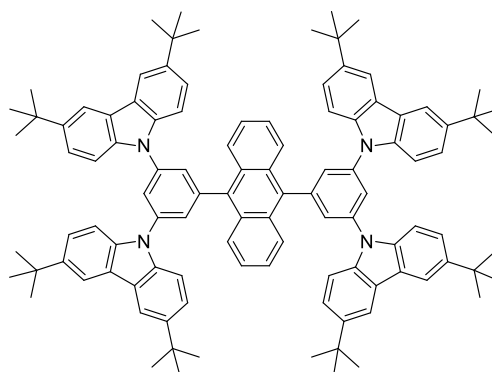


Bis(carbazol-9-yl)phenyl end-capped polyaromatics as solution-processed deep blue fluorescent emitters for simple structure solution-processed electroluminescent devices

Product Specifications

LT-N6072	C-A-C
Grade	Sublimed, >99%
Formula	C ₁₀₆ H ₁₁₀ N ₄
PL	432 nm (film)
HOMO/LUMO	-5.90/-2.96 eV
M.W.	1440.03 g/mole



*Reference: *Dyes and Pigments*.2021, 186, 109065

Features

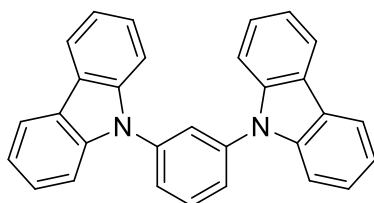
● In this paper, the molecules are constructed from basic building blocks of blue chromophores (anthracene or pyrene derivatives) and end-capped with charge transporting (1,3 phenylene)bis (3,6-di-*tert*-butyl-9H-carbazole) units which provided the tunable emission in the blue spectral range.

● The best device performance based on **C-A-C as the emitter** offered **low turn on voltage of 3.7 V**, **external quantum efficiency of 3.24%**, strong deep-blue emission of 424 nm with high color purity at CIE coordinates (0.155, 0.066).

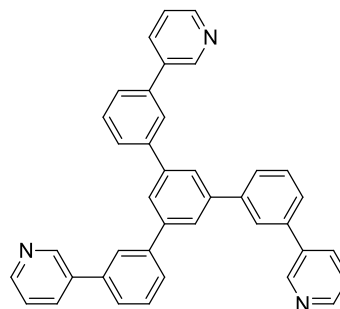
Device Application

Device: ITO / PEDOT:PSS / 20 wt% C-A-C : mCP / TmPyPB / LiF / Al

Related products from Lumtec:



LT-E107 mCP



LT-N863 TmPyPB

