

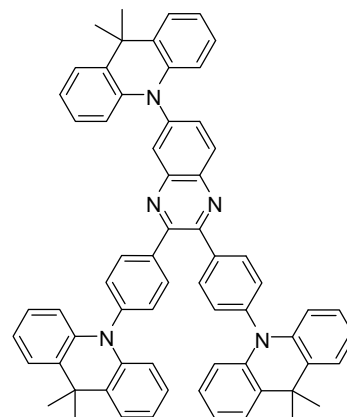


Molecular Design to Regulate the photophysical Properties of Multifunctional TADF Emitters towards High-Performance TADF-based OLEDs with EQEs up to 22.4% and small Efficiency Roll-Offs

Product Specifications

LT-N566 DBQ-3DMAc

Name.	2,3-bis(4-(9,9-dimethyl-9,10-dihydroacridinyl-10-yl)phenyl)-6-(9,9-dimethyl-9,10-dihydroacridine-10-yl)-quinoxaline
CAS No.	2035390-33-9
Grade	Sublimed, >99 % (HPLC)
Formula	C ₆₅ H ₅₃ N ₅
Molecular Weight	904.15 g/mole
PL	536, 548 nm
HOMO/LUMO	-5.26 eV/ -2.81 eV
ΔE_{ST}	0.04 eV



* Reference: J. Name., 2013, 00, 1-3

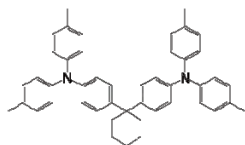
Features

- The DBQ-3DMAc-based doped device acquires the highest EQE of 22.4%, a maximum current efficiency (CE_{max}) of 80.3 cd/A and a maximum power efficiency (PE_{max}) of 64.1 lm/W for green device.

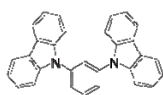
Device Application

The Green TADF Device:

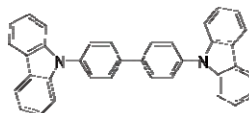
ITO/ MoO₃ (10 nm)/ TAPC (50 nm)/ MCP (10 nm)/ CBP:DBQ-3DMAc (20 nm, 10 %)/ Bphen (45 nm)/ LiF (1 nm)/ Al.



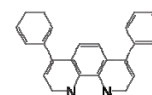
LT-N137 TAPC
MoO₃ = LT-E003



LT-E107 MCP
LiF = LT-E001



LT-E409 CBP
Al = LT-E005



LT-E305 Bphen

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

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