



New Area of Research in OLEDs -Aggregation-Induced Emission (AIE)

Aggregation-Induced Emission (AIE) is a novel photophysical phenomenon which offers a new platform for researchers to look into the light-emitting processes from luminogen aggregates, from which useful information on structure–property relationships may be collected and mechanistic insights may be gained. The discovery of the AIE effect opens a new avenue for the development of new luminogen materials in the aggregate or solid state. By enabling light emission in the practically useful solid state, AIE has the potential to expand significantly the technological applications of luminescent materials.

The further information of new materials below,

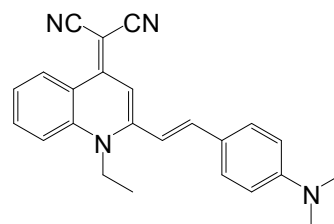
Product Specifications

LT-N778 ED

(*E*)-2-(2-(4-(dimethylamino)styryl)-1-ethylquinolin-4(1*H*)-ylidene)malononitrile

CAS No.	1334739-85-3
Grade	> 99% (HPLC)
Formula	C ₂₄ H ₂₂ N ₄
Molecular Weight	366.4680 g/mole
Fluorescence	λ = 614 nm (solid state)

Reference : *ACS Appl. Mater. Interfaces* 2013, 5, 192



LT-N779 QM-5

(*E*)-2-(2-(2-(7-(4-(bis(4-methoxyphenyl)amino)phenyl)-2,3-dihydrothieno[3,4-*b*][1,4]dioxin-5-yl)vinyl)-1-ethylquinolin-4(1*H*)-ylidene)malononitrile

CAS No.	1651166-05-0
Grade	> 99% (HPLC)
Formula	C ₄₂ H ₃₄ N ₄ O ₄ S
Molecular Weight	690.8180 g/mole
Fluorescence	λ = 708 nm (solid state)

Reference : *Angew. Chem. Int. Ed.* 2015, DOI: 10.1002/anie.201501478

