

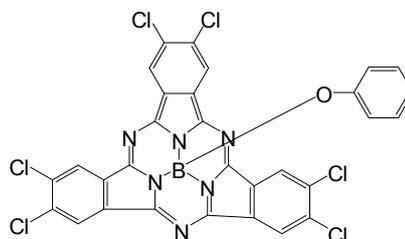


Solution-processed boron subphthalocyanine derivatives as acceptors for organic bulkheterojunction solar cell

Product Specifications

LT-S9181 PhO-BsubPc

CAS No.	1309390-01-9
Grade	> 99% (HPLC)
Formula	$C_{30}H_{11}BCl_6N_6O$
Molecular Weight	694.98 g/mole
Absorption	267, 318, 569 nm (in $CHCl_3$)
HOMO/LUMO	-5.8eV/-3.0eV



Reference : *Journal of Materials Chemistry A: Materials for Energy and Sustainability* (2015), 3(14), 7345-7352

Features

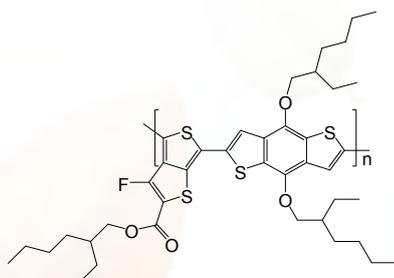
- Solution-processed bulk heterojunction devices from subphthalocyanine derivatives as the acceptor component.
- The high solubility of the SubPC derivatives facilitated the formation of efficient donor/acceptor networks and provided power conversion efficiencies of 0.4% with MEH-PPV, 1.1% with P3HT and 3.5% with PTB7.
- Solution-processable SubPC are a promising alternative to fullerenes for polymer solar cell.

Device Application

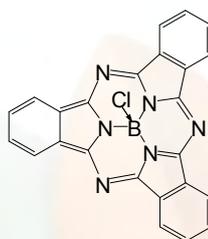
The Best Device :

ITO/PEDOT:PSS/PTB7: PhO-BsubPc/Ca(20 nm)/Al(100 nm)

Related products from Lumtec :



LT-S9050 PTB7



LT- S943 SubPC

Al

LT-E005 Al