

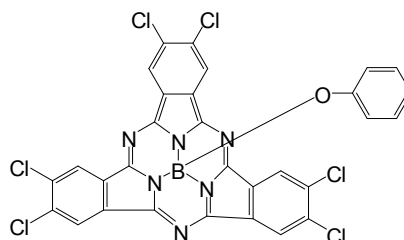


## Solution-processed boron subphthalocyanine derivatives as acceptors for organic bulkheterojunction solar cell

### Product Specifications

#### LT-S9181 PhO-BsubPc

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



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

### Features

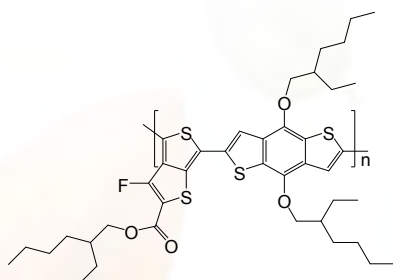
- Solution-processed bulk heterojunction devices from subphthalocyanine derivatives as the acceptor component.
- The high solubility of the SubPC derivatives facilitated the formation of efficient donor/acceptor networks and provided power conversion efficiencies of 0.4% with MEH-PPV, 1.1% with P3HT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

### Device Application

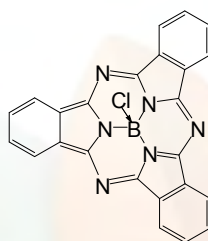
#### The Best Device :

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