

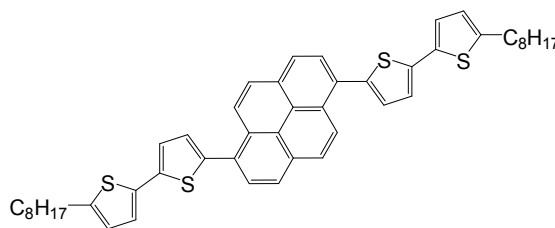


High-Mobility Pyrene-Based Semiconductor for Organic Thin-Film Transistors

Product Specifications

LT-S9077 BOBTP

CAS No.	1430207-54-7
Grade	Sublimed, > 99% (NMR)
Formula	$C_{48}H_{50}S_4$
Molecular Weight	755.17 g/mole
Absorption	320,410 nm (in $CHCl_3$)



Reference : ACS Applied Materials & Interfaces (2013), 5(9), 3855-3860

Features

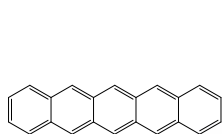
- The OTFT using BOBTP showed a field-effect mobility as high as $2.1 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ and an on-off current ratio 7.6×10^6 under the optimized condition.
- BOBTP TFT showed better air stability than that of pentacene TFT for 3 months.

Device Application

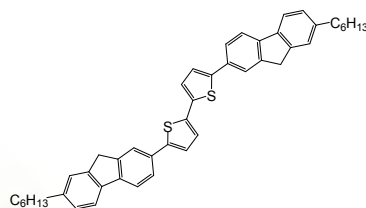
The Best Device :

Doped Si/ SiO_2 (300 nm)/BOBTP/Au

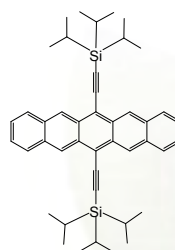
Related products from Lumtec :



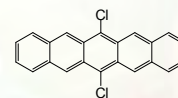
LT-S901 Pentacene



LT-S976 DH-FTTF



LT-S977 TIPS



LT-S9080 DCP