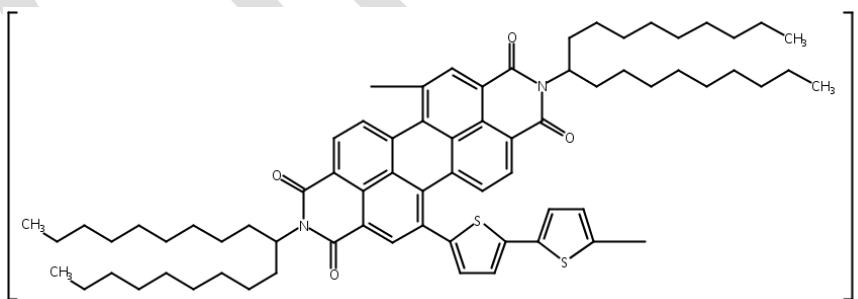


CERTIFICATE OF ANALYSIS

Product: OS0692, PDI-2T
 Application: Laboratory Research Use ONLY
 CAS #: 1189046-69-2
 Chemical Name: Poly[[1,2,3,8,9,10-hexahydro-2,9-bis(1-nonyldecyl)-1,3,8,10-tetraoxoanthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-5,12-diyl][2,2'-bithiophene]-5,5'-diyl]



Lot number: YY21150
Appearance: Shine deep purple solid
Volatile moisture balance: < 1.0 %
Molecular weight (GPC): >50,000 (Mw, PS Standard), Polydispersity(PDI): 2.5
Solubility: Soluble in chloroform, chlorobenzene and dichlorobenzene
NMR analysis: Structure confirmed
Assay: 99.99+% (basing on trace metal content)