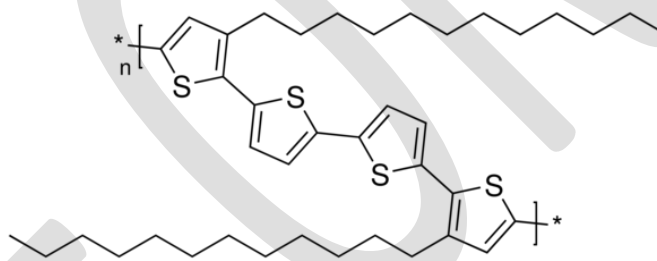


CERTIFICATE OF ANALYSIS

1M Material: PH0412, PTQ-12, PTQ12
Application: Laboratory Research Use ONLY
CAS # 827343-06-6
Chemical Name: Poly(3,3''-didodecyl[2,2':5',2'':5'',2'''-quaterthiophene]-5,5'''-diyl)
Chemical Structure:



Lot number: YY21036CH
Appearance: Dark red powder
Molecular weight (GPC): Mw~30K, PDI ~2.5 (PS Standards)
Solubility: Soluble in hot CHCl₃ and other selected organic solvents
Caution: temperature sensitive, heating for clear solution
NMR analysis: Structure confirmed
Assay: 99+% (basing on NMR of monomers)

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