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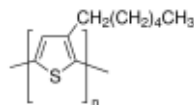
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Poly(3-hexylthiophene-2,5-diyl) - regioregular, average M_n 54,000-75,000, electronic grade, 99.995% trace metals basis

Product Number: 698997
 Batch Number: MKBT9009V
 Brand: ALDRICH
 CAS Number: 156074-98-5
 MDL Number: MFCD00217686
 Formula: (C₁₀H₁₄S)_n
 Quality Release Date: 18 FEB 2015



Test	Specification	Result
Appearance (Color)	Brown to Black	Black
Appearance (Form)	Powder	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Proton NMR Spectrum	Conforms to Structure	Conforms
As Regioregular		
Proton NMR	≥ 98 %	98 %
Regioregular (Head-to-Tail)		
Molecular Number	54000 - 75000	70520
Molecular Wt/Molecular Nm	≤ 2.5	1.7
Trace Metal Analysis	≤ 50 ppm	< 50 ppm
Aluminum (Al)		< 8.7 ppm
Iron (Fe)		< 6.1 ppm
Magnesium (Mg)		< 12.1 ppm
Nickel (Ni)		< 1.6 ppm
Purity	Meets Requirements	Meets Requirements
99.995% Based on Trace Metals Analysis		
Registered Trademark	Confirmed	Confirmed
Solvay USA Inc		

Ali Ataei, Manager
 Quality Control
 Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.