



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-226780
Lot Number: SAMPLE
Product Name: 4-Phenylthiophene-2-carboxylic acid
CAS Number: 21676-88-0
Molecular Formula: $C_{11}H_8O_2S$
Molecular Weight: 204.25

Test	Specification	Result
Appearance	White to tan solid powder crystals	Tan fibers
Identification (1H -NMR)		Consistent with structure
Identification (^{13}C -NMR)		Consistent with structure
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (GC)	$\geq 96.5\%$	99.8%
Purity (Sodium Hydroxide Titration)	96.5 - 103.5%	102.0%
Melting Point		164.4 - 169.8 °C
Carbon Content	62.4 - 67.0%	64.65%
Sulfur Content	15.2 - 16.2%	15.73%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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