



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-236833
Lot Number: SAMPLE
Product Name: (S)-N,N'-Dimethyl-1,1'-binaphthyldiamine
CAS Number: 666175-40-2
Molecular Formula: $C_{22}H_{20}N_2$
Molecular Weight: 312.41

Test	Specification	Result
Appearance	White to off-white powder	Off-white powder
Enantiomeric Excess (HPLC)	$\geq 99.0\%$	99.2%
Identification (1H -NMR)	Consistent with structure	Complies
Purity (HPLC)	$\geq 99.0\%$	99.7%
Melting Point	147 - 150 °C	149 °C
Specific Rotation ($\alpha_{20/D}$)	$-156 \pm 3^\circ$ (c = 0.5 in $CHCl_3$)	-153.9°
Carbon Content	84.58%	83.51%
Hydrogen Content	6.45%	6.64%
Nitrogen Content	8.97%	8.55%

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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