



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-212661
Lot Number: SAMPLE
Product Name: (R)-(+)-Verapamilic Acid
CAS Number: 38175-99-4
Molecular Formula: $C_{16}H_{21}NO_4$
Molecular Weight: 291.34
Native Source: Synthetic

Test	Specification	Result
Appearance	White to off-White solid	White solid
Identification (FTIR)	Consistent with structure	Complies
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Purity (TLC)		96%
Melting Point		42 - 49 °C
Solubility		5 mg/mL in CDCl ₃ 3 2 mg/ml in MeOH
Specific Rotation		+24.8° (c = 0.2, Methanol) +26.4° (c = 0.2, Methanol) +38.6° (c = 0.2, Ethanol) +37.4° (c = 0.2, Ethanol)
Carbon Content	65.96%	64.63%
Hydrogen Content	7.27%	7.13%
Nitrogen Content	4.81%	4.73%

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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