



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-486420
Lot Number: SAMPLE
Product Name: γ -Dodecanolactone
CAS Number: 2305-05-7
Molecular Formula: $C_{12}H_{22}O_2$
Molecular Weight: 198.31

Test	Specification	Result
Appearance	Colorless liquid	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (GC)	$\geq 97.0\%$	98.8%
Solubility	Colorless clear solution at 1ml/1ml in 95% Ethano	Complies
Specific Gravity	0.933 - 0.938	0.934
Refractive Index (n _{20/D})	1.451 - 1.456	1.452
Acid Value	≤ 1.0 ppm	0.3ml
Arsenic	≤ 3.0 ppm	< 1.0ppm
Cadmium	≤ 1.0 ppm	< 1.0 ppm
Lead	$\leq 10.0\%$	< 1.0 ppm
Mercury	≤ 1.0 ppm	< 1.0 ppm

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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