



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number 04-2236
Lot Number 8B00288084
Product **L-Phenylalanine**

L-Phe-OH

(S)-(-)-Phenylalanine

CAS Number 63-91-2
Molecular Formula $C_9H_{11}NO_2$

Molecular Weight 165.2

Appearance	White crystalline powder
Heavy Metals	< 15 ppm
Anion	Chloride (Cl ⁻): < 0.05% Sulfate (SO ₄): < 0.03%
Cation	Iron (Fe): < 30 ppm
pH	5.8
Optical Rotation	$[\alpha]_D^{20} = -33.5^\circ$
Infrared Spectrum	Conforms to structure
Loss on Drying	0.12%
Organic Volatile Impurities	Meets requirements
Related Substances	Individual impurity: < 0.5% Total impurities: < 2.0%
Residue On Ignition	0.10%
Assay by titration	99.6% (anhydrous basis)
Grade	USP
Storage	Store at RT