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Product Specifications

Catalogue Number 06284

Product **L-Cycloserine**

L-4-Amino-3-isoxazolidinone

(S)-4-Amino-3-isoxazolidinone

CAS Number 339-72-0

Molecular Formula C₃H₆N₂O₂

Molecular Weight 102.1

Appearance White powder

Appearance of Solution Clear, colorless solution (25 mg/mL in water)

Water Content (Karl Fisher) ≤ 1%

TLC System 2-Butanol/Pyridine/Water (7:7:6)
Isopropanol/Ammonia conc. (1:1)
Methanol/Chloroform/Ammonia 17% (2:2:1)
Plate: Silica gel 60 F₂₅₄
Detected by: UV, ninhydrin, chlorine-tolidine

Optical Rotation [α]_D²⁴ = -108 ± 2° (C=1 in H₂O)

Assay ≥ 97% (Elemental analysis based on Nitrogen content)

Purity by HPLC ≥ 98%

Purity by TLC ≥ 95%

Storage Store at 0-8 °C

For Laboratory Use Only