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Product Specifications

Catalogue Number	03295
Product	S-(2-Aminoethyl-L-cysteine hydrochloride)
	L-Cys(aminoethyl)-OH•HCl L-4-Thialysine hydrochloride
CAS Number	4099-35-8
Molecular Formula	C ₅ H ₁₂ N ₂ O ₂ S•HCl
Molecular Weight	200.7

Appearance	Slightly beige powder
Solubility	Clear, slightly beige solution (50 mg/mL in Water)
Melting Point	200-202 °C
Elemental Analysis (Theory)	C = 30.0 ± 0.5%; H = 6.0 ± 0.5%; N = 14.0 ± 0.5% Calc x 0.95 HCl (17.3%) x 0.08 H ₂ O (0.7%)
TLC System	Methanol/Chloroform/Ammonia 17% (2:2:1) Isopropanol/Ammonia conc (1:1) n-Butanol/Acetic acid/H ₂ O (4:2:2) Plate: Silica gel 60 F ₂₅₄ Detected by UV, chlorine-tolidine.
Optical Rotation	[α] _D ²⁴ = -6.5 ± 1° (C=1 in Water)
Titration	Chloride content : ≤ 18% (AgNO ₃)
Assay	≥ 98% (Elemental analysis based on Nitrogen content)
Purity by TLC	≥ 99%
Storage	Store at 0 - 8 °C

For Laboratory Use Only