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Product Specifications

Catalogue Number	03051
Product	<i>S-tert-Butylthio-L-cysteine</i> L-Cys(StBu)-OH 3-(<i>tert</i> -Butyldithio)-L-alanine
CAS Number	30044-51-0
Molecular Formula	C ₇ H ₁₅ NO ₂ S ₂
Molecular Weight	209.3

Appearance	White powder
Appearance of Solution	Clear, colorless solution (50 mg/mL in acetic acid 80%)
Elemental Analysis (Theory)	C = 38.5 ± 0.4%; H = 7.4 ± 0.4%; N = 6.4 ± 0.4% Calc as x 0.5 H ₂ O (4.13%)
Water Content (Karl Fisher)	≤ 5%
TLC System	Chloroform/Methanol/Acetic Acid/water (60:45:14:6) Chloroform/Methanol/Acetic Acid 32% (5:3:1) Chloroform/Acetic Acid (95:5) plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Optical Rotation	[α] _D ²⁴ = -84 ± 1 ° (C = 1% in 1N HCl)
Assay	≥ 96% (Cth 40.16% by Elemental Analysis)
D-Enantiomer	≤ 0.5%
Purity by TLC	≥ 99%
Chiral Purity	≥ 99.5% (ee)
Storage	Store at 0 - 8 °C

For Laboratory Use Only