

Analytical Data Sheet

Lot number **1000018267**
not for drug use

Catalog number **E-1655.0001**
Product number **4001695.0001**
Product **H- Ser(tBu) - OH**
Molecular formula $C_7H_{15}NO_3$
Relative molecular mass 161.20

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)
Identification (elemental analysis)	<p>Theory Found</p> <p>C = 51.1% C = 51.2%</p> <p>H = 9.4% H = 9.4%</p> <p>N = 8.5% N = 8.5%</p> <p>calc. x 0.19 H₂O (2.1%)</p>
Identification (TLC)	complies with authentic material
Melting point	237 °C
Specific optical rotation	$[\alpha]_D^{24} = -17.0^\circ$ (1% in water)
Purity (TLC)	> 99%
TLC conditions	<p>n-butanol/acetic acid/H₂O 4/2/2</p> <p>ethylacetate/pyridine/acetic acid/H₂O 6/4/1/3</p> <p>chloroform/methanol/acetic acid 32% 5/3/1</p> <p>plate: silicagel 60 F₂₅₄</p> <p>detected by: UV, ninhydrin, chlorine-tolidine</p>
Assay (elemental analysis)	98.2% (Cth 52.16%, Cfd 51.19%)
Water content (KF volumetric)	2.1%

Latest update: July 09, 2019

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