

Analytical Data Sheet

Lot number **1000029160**
not for drug use

Catalog number **G-3580.1000**
Product number **4002210.1000**
Product **H- Val- Ser- OH**
Molecular formula **C₈H₁₆N₂O₄**
Relative molecular mass **204.23**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in AcOH 80 %)								
Identification (elemental analysis)	<table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 45.64 %</td><td>C = 45.13 %</td></tr><tr><td>H = 8.00 %</td><td>H = 7.76 %</td></tr><tr><td>N = 13.31 %</td><td>N = 13.21 %</td></tr></tbody></table> calc. as 0.35 H ₂ O (3.0 %)	Theory	Found	C = 45.64 %	C = 45.13 %	H = 8.00 %	H = 7.76 %	N = 13.31 %	N = 13.21 %
Theory	Found								
C = 45.64 %	C = 45.13 %								
H = 8.00 %	H = 7.76 %								
N = 13.31 %	N = 13.21 %								
Melting point	239 °C								
Specific optical rotation	$[\alpha]_D^{24} = +36.2^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	96.3% (Nth 13.72 %, Cfd 13.21 %)								
Water content (KF volumetric)	2.7%								

Latest update: February 25, 2020

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