

Analytical Data Sheet

Lot number

1040558

not for drug use

Catalog Number	C-3700.0005
Product number	4018569.0005
Product	Z- N- Me- Val- OH
Molecular formula	C ₁₄ H ₁₉ NO ₄
Relative molecular mass	265.31

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 63.4 %</td> <td>C = 63.3 %</td> </tr> <tr> <td>H = 7.2 %</td> <td>H = 7.6 %</td> </tr> <tr> <td>N = 5.3 %</td> <td>N = 5.3 %</td> </tr> </table>	Theory	Found	C = 63.4 %	C = 63.3 %	H = 7.2 %	H = 7.6 %	N = 5.3 %	N = 5.3 %
Theory	Found								
C = 63.4 %	C = 63.3 %								
H = 7.2 %	H = 7.6 %								
N = 5.3 %	N = 5.3 %								
Identification (TLC)	complies with authentic material								
Melting point	69 °C								
Specific optical rotation	$[\alpha]_D^{24} = -86.1^\circ$ (1 % in methanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Z-Val-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdate								
Assay (elemental analysis)	99.9% (Cth 63.38 %, Cfd 63.34 %)								

Latest update: January 16, 2012

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