

Analytical Data Sheet

Lot number

1022452

not for drug use

Catalog Number	A-4275.0025
Product number	4030397.0025
Product	Boc- L- alaninol
Molecular formula	$C_8H_{17}NO_3$
Relative molecular mass	175.23

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 54.8%</td> <td>C = 54.7%</td> </tr> <tr> <td>H = 9.8%</td> <td>H = 9.5%</td> </tr> <tr> <td>N = 8.0%</td> <td>N = 8.1%</td> </tr> </table>	Theory	Found	C = 54.8%	C = 54.7%	H = 9.8%	H = 9.5%	N = 8.0%	N = 8.1%
Theory	Found								
C = 54.8%	C = 54.7%								
H = 9.8%	H = 9.5%								
N = 8.0%	N = 8.1%								
Identification (TLC)	complies with authentic material								
Melting point	61.5 °C								
Specific optical rotation	$[\alpha]_D^{24} = -9.0^\circ$ (1.2 % in methanol)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.1% D-enantiomer								
Other amino acids (GC)	none detected (< 0.3 %)								
Assay (elemental analysis)	99.8% (Cth 54.84%, Cfd 54.73%)								
Latest update: March 12, 2009									