

Analytical Data Sheet

Lot number

1035839

not for drug use

Catalog Number	N-1105.0250
Product number	4001621.0250
Product	H- Leu- chloromethylketone · HCl
Molecular formula	C ₇ H ₁₄ ClNO · HCl
Relative molecular mass	200.11

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 = 42.0%</td> <td>C = 41.6%</td> </tr> <tr> <td>H = 7.6%</td> <td>H = 7.1%</td> </tr> <tr> <td>N = 7.0%</td> <td>N = 6.9%</td> </tr> </table> <p>calc. x 1.0 HCl (18.2%)</p>	Theory	Found	C = 42.0%	C = 41.6%	H = 7.6%	H = 7.1%	N = 7.0%	N = 6.9%
Theory	Found								
C = 42.0%	C = 41.6%								
H = 7.6%	H = 7.1%								
N = 7.0%	N = 6.9%								
Identification (TLC)	complies with authentic material								
Melting point	142 °C								
Specific optical rotation	$[\alpha]_D^{24} = +99.2^\circ$ (1% in methanol) (immediately)								
Purity (TLC)	decomposition								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 chloroform/methanol/acetic acid 77.5/15/7.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Chloride content (titration)	17.3% Cl ⁻ (97.7% of theoretical)								

Latest update: March 23, 2011

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