

Analytical Data Sheet

Lot number **1000006213**
not for drug use

Catalog number **N-1155.0500**
Product number **4001453.0500**
Product **Tos- Lys- chloromethylketone · HCl**
Molecular formula **C₁₄H₂₁ClN₂O₃S · HCl**
Relative molecular mass **369.31**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 45.5%</td> <td>C = 46.0%</td> </tr> <tr> <td>H = 6.0%</td> <td>H = 5.9%</td> </tr> <tr> <td>N = 7.6%</td> <td>N = 7.5%</td> </tr> </tbody> </table>	Theory	Found	C = 45.5%	C = 46.0%	H = 6.0%	H = 5.9%	N = 7.6%	N = 7.5%
Theory	Found								
C = 45.5%	C = 46.0%								
H = 6.0%	H = 5.9%								
N = 7.6%	N = 7.5%								
Identification (TLC)	Rf value in agreement with authentic material [n-butanol : glacial acetic acid : water = 50:15:25 (V/V/V)]								
Melting point	158 °C								
Specific optical rotation	$[\alpha]_D^{24} = -9.9^\circ$ (5% in water)								
Purity (HPLC)	99.84% (TFA)								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 n-butanol/glacial acetic acid/water 50/15/25 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	100.0%(Cth 45.53%, Cfd 45.53%)								
Chloride content (titration)	9.6%								

Latest update: September 17, 2018

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