

Analytical Data Sheet

Lot number

0570598

not for drug use

Catalog Number	N-1160.0005
Product number	4000836.0005
Product	Tos- Phe- chloromethylketone
Molecular formula	C₁₇H₁₈ClNO₃S
Relative molecular mass	351.85

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 58.0 %</td> <td>C = 58.1 %</td> </tr> <tr> <td>H = 5.2 %</td> <td>H = 5.2 %</td> </tr> <tr> <td>N = 4.0 %</td> <td>N = 4.1 %</td> </tr> </table>	Theory	Found	C = 58.0 %	C = 58.1 %	H = 5.2 %	H = 5.2 %	N = 4.0 %	N = 4.1 %
Theory	Found								
C = 58.0 %	C = 58.1 %								
H = 5.2 %	H = 5.2 %								
N = 4.0 %	N = 4.1 %								
Identification (TLC)	conforms with authentic material								
Melting point	108 °C								
Specific optical rotation	[α] _D ²⁴ = - 86.1 ° (1 % in EtOH abs.)								
Purity (TLC)	> 98%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	100.2% (Cth 58.03 %, Cfd 58.14 %)								
Latest update: October 25, 2008	Analytical Data Sheet Lot number 0570598								