

Analytical Data Sheet

Lot number

1026636

not for drug use

| | |
|--------------------------------|--|
| Catalog Number | E-2730.0001 |
| Product number | 4013497.0001 |
| Product | H- Met- OtBu · HCl |
| Molecular formula | C ₉ H ₁₉ NO ₂ S · HCl |
| Relative molecular mass | 241.78 |

| 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 = 44.7 %</td> <td>C = 44.7 %</td> </tr> <tr> <td>H = 8.3 %</td> <td>H = 8.4 %</td> </tr> <tr> <td>N = 5.8 %</td> <td>N = 5.9 %</td> </tr> </table> <p>calc. as HCl (15.08%, 14.66 Cl)</p> | Theory | Found | C = 44.7 % | C = 44.7 % | H = 8.3 % | H = 8.4 % | N = 5.8 % | N = 5.9 % |
| Theory | Found | | | | | | | | |
| C = 44.7 % | C = 44.7 % | | | | | | | | |
| H = 8.3 % | H = 8.4 % | | | | | | | | |
| N = 5.8 % | N = 5.9 % | | | | | | | | |
| Identification (TLC) | <p>complies with authentic material</p> <p>reference lot 0521197</p> | | | | | | | | |
| Melting point | 154 ° C | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = +12.2^\circ$ (1 % MeOH) | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | <p>chloroform/methanol/toluene/H₂O 8/8/8/1</p> <p>chloroform/methanol/acetic acid 85/10/5</p> <p>ethylacetate/pyridine/acetic acid/H₂O 60/20/6/11</p> <p>plate: silicagel 60 F₂₅₄</p> <p>detected by: UV, ninhydrin, chlorine-tolidine</p> | | | | | | | | |
| Enantiomer content (GC) | 0.1 % (H-D-Met-OtBu*HCl) | | | | | | | | |
| Chloride content (titration) | 14.7% (AgNO ₃) | | | | | | | | |
| Latest update: September 21, 2009 | | | | | | | | | |