

Analytical Data Sheet

Lot number

1062931

not for drug use

| | |
|-------------------------|--|
| Catalog number | E-1390.0001 |
| Product number | 4000340.0001 |
| Product | H- Asn- OtBu · HCl |
| Molecular formula | C ₈ H ₁₆ N ₂ O ₃ · HCl |
| Relative molecular mass | 224.69 |

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|------------|------------|-----------|-----------|------------|------------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in MeOH) | | | | | | | | |
| Identification (elemental analysis) | <table><thead><tr><th>Theory</th><th>Found</th></tr></thead><tbody><tr><td>C = 40.6 %</td><td>C = 40.3 %</td></tr><tr><td>H = 7.8 %</td><td>H = 7.4 %</td></tr><tr><td>N = 11.8 %</td><td>N = 11.9 %</td></tr></tbody></table> <p>calc. as 1.03 HCl (15.43 % Cl) x 0.6 H₂O (4.6 %)</p> | Theory | Found | C = 40.6 % | C = 40.3 % | H = 7.8 % | H = 7.4 % | N = 11.8 % | N = 11.9 % |
| Theory | Found | | | | | | | | |
| C = 40.6 % | C = 40.3 % | | | | | | | | |
| H = 7.8 % | H = 7.4 % | | | | | | | | |
| N = 11.8 % | N = 11.9 % | | | | | | | | |
| Identification (TLC) | conforms with authentic material | | | | | | | | |
| Melting point | 114 °C (decomposes) | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = +11.8^\circ$ (2 % in MeOH) | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine | | | | | | | | |
| Water content (KF volumetric) | 4.0% | | | | | | | | |
| Chloride content (titration) | 15.4% (AgNO ₃) | | | | | | | | |

Latest update: December 03, 2015

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