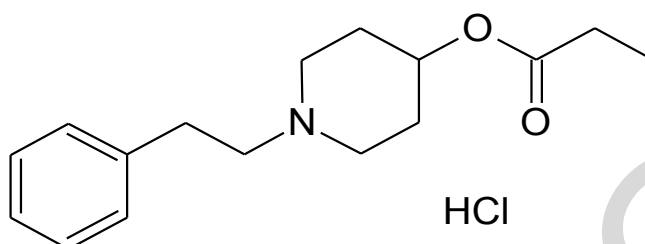


Certificate of Analysis

Structure:



| | |
|----------------------|--|
| Name | 1-(2-phenylethyl)piperidin-4-yl propanoate hydrochloride |
| Synonym(s) | None |
| Epichem Item # | EPL-AA132 Batch 2 |
| CAS # | Not available |
| Molecular Formula | C ₁₆ H ₂₃ NO ₂ .HCl |
| Molecular Weight | 297.82 g/mol |
| Purity | 99.2% (weight/weight) 99.6% by HPLC at 210nm (assuming all components detected with the same response factor). No significant impurities detected by ¹ H NMR analysis. 0.30% water by Karl Fischer method. 0.10% ash. |
| Combustion Analysis | Required (%): C:64.5; H:8.1; N:4.7. Found (%): C:64.4; H:8.2; N:4.6. |
| Appearance | White powder |
| Melting Point | 237.1-240.6°C |
| Date of Manufacture | 26 August 2016 |
| Storage Requirements | Protect from heat, light and moisture. |
| Special Precautions | This compound is for laboratory use only. Its toxicological properties may not have been fully established. It should be handled only by suitably qualified personnel. |

John Moursoundis, PhD
 Head Fine Chemicals and Technical Services
 14 September 2016