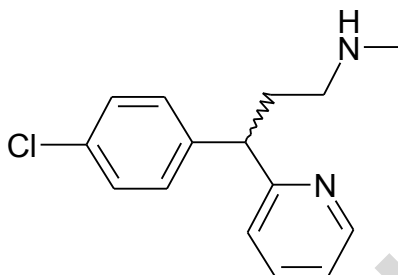


Certificate of Analysis

*Revised 14 August 2015

Structure:



Name	<i>N</i> -(3-(4-chlorophenyl)-3-pyridin-2-ylpropyl)- <i>N</i> -methylamine
BP Name	Chlorphenamine Maleate Impurity C*
Synonym(s)	Chlorpheniramine Impurity C; (3 <i>RS</i>)-3-(4-chlorophenyl)- <i>N</i> -methyl-3-(pyridin-2-yl)propan-1-amine*
Epichem Item #	EPL-AA20 Batch 9
CAS #	20619-12-9
Molecular Formula	C ₁₅ H ₁₇ ClN ₂
Molecular Weight	260.77 g/mol
Purity	99.6% (weight/weight) 100.0% by HPLC at 206nm and 222nm, and 256nm (assuming all components detected with the same response factor) No significant impurities detected by ¹ H NMR analysis. 0.43% water by Karl-Fischer method. 0.01% ash.
Combustion Analysis	Required (%): C:69.1; H:6.6; N:10.7. Found (%): C:69.0; H:6.4; N:11.0.
Appearance	Yellow oil
Date of Manufacture	22 February 2012
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 Moursounidis, PhD
Head of Production
14 August 2015