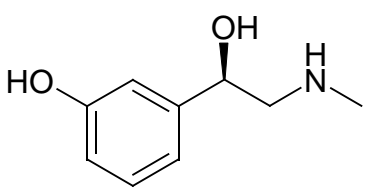


Certificate of Analysis

Structure: <div style="text-align: center;">  <p style="margin-left: 150px;">HCl</p> </div>	
Name	phenylephrine hydrochloride
Synonym(s)	(<i>R</i>)-3-(1-hydroxy-2-(methylamino)ethyl)phenol hydrochloride; (<i>R</i>)-3-hydroxy- α -(methylaminomethyl)benzylalcohol hydrochloride; (<i>R</i>)-1-(3-hydroxyphenyl)-2-methylaminoethanol hydrochloride
Epichem Item #	EPL-AA73 Batch 1
CAS #	61-76-7
Molecular Formula	C ₉ H ₁₃ NO ₂ .HCl
Molecular Weight	203.67 g/mol
Purity	99.7% (weight/weight) 99.9% by HPLC at 200nm, 214nm and 274nm (assuming all components detected with the same response factor). No significant impurities detected by ¹ H NMR analysis. 0.07% water by Karl-Fischer method. 0.1% ash.
Combustion Analysis	Required (%): C:53.1; H:6.9; N:6.9; Cl:17.4. Found (%): C:53.2; H:6.8; N:6.7; Cl:17.6.
Appearance	Colourless crystals
Melting Point	143.6-146.0°C
Date of Manufacture	3 November 2010
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.

Robert Gauci
General Manager
10 November 2010