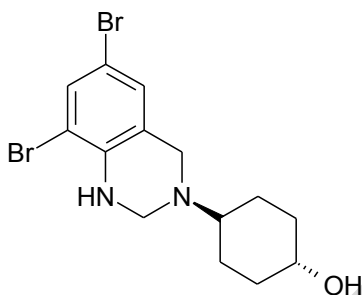


## Certificate of Analysis

\*Revised 1 June 2017

**Structure:**



Name	<i>trans</i> -4-(6,8-dibromo-1,4-dihydroquinazolin-3(2 <i>H</i> )-yl)cyclohexanol
Synonym(s)	Ambroxol Impurity B
Epichem Item #	EPL-AA107 Batch 1
CAS #	18683-95-9
Molecular Formula	C <sub>14</sub> H <sub>18</sub> Br <sub>2</sub> N <sub>2</sub> O
Molecular Weight	390.12g/mol
Purity	99.2% (weight/weight)* 99.7% by HPLC at 220nm (assuming all components detected with the same response factor).* <sup>1</sup> H NMR analysis detected 0.3% (wt/wt) ethyl acetate. 0.15% water by Karl-Fischer method.* 0.07% ash.
Combustion Analysis	Required (%): C:43.1; H:4.6; N:7.2. Found (%): C:43.4; H:4.7; N:7.0.
Appearance	White powder
Melting Point	144.4-146.4°C*
Date of Manufacture	8 March 2012
Storage Requirements	Protect from heat, light and moisture.
Special Precautions	<b>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.</b>

John Moursounidis, PhD  
 Head Fine Chemicals and Technical Services  
 1 June 2017