



# G. AMPHRAY LABORATORIES

Clioquinol BP/EP/USP (Iodochlorohydroxyquinoline)		Product Data Sheet	
CAS No. 130-26-7 C <sub>9</sub> H <sub>5</sub> ClINO		Molecular Weight : 305.5	
INFORMATION OF THE PRODUCT			
Sr.No.	Information		
1	Name of the Product	:	Clioquinol BP/EP/USP (Iodochlorohydroxyquinoline)
2	Structure	:	
3	Composition	:	It is from the family of hydroxyquinoline
4	Chemical Name (IUPAC)	:	5-Chloro-7-iodoquinoline-8-ol or 8-Quinolinol,5-chloro-7-iodo-
5	Properties	:	Antibacterial, Antiprotozoal
6	Specification	:	<p>Appearance (As per Ph.Eur.) Almost white , light yellow , brownish yellow or yellowish grey powder</p> <p>Description (As per USP) Voluminous , spongy, yellowish -white to brownish -yellow powder , having a slight , characteristic odor .Melts at about 180<sup>0</sup> C</p> <p>Solubility (As per Ph.Eur.) Sparingly soluble in methylene chloride, very slightly soluble or slightly soluble in ethanol (96%)</p> <p>Solubility (As per USP) Soluble in hot ethyl acetate and in hot glacial acetic acid</p> <p><b>Identification</b></p> <p>A) UV (As per Ph.Eur.) Maxima at 255nm ,The specific absorbance at this maxima is 1530 to 1660</p> <p>B) IR (As per Ph.Eur.) IR spectrum of sample is concordant with that of the reference standard</p> <p>C) Iodine (As per Ph.Eur./USP) Iodine fumes are produce</p> <p>D) Chloride (As per Ph.Eur.) A dark green colour produce</p> <p>E) GC (As per USP) The retention time of sample chromatogram is same as that of standard chromatogram absorptivities not more than 3.0%</p> <p>F) UV (As per USP)</p> <p>Acidity or Alkalinity (As per Ph.Eur.) Not more than 0.5 ml of 0.01 M NaOH is required to change the color of the indicator to pink</p> <p>Halides (As per Ph.Eur.) Maximum 140 ppm</p> <p>Loss on drying (As per Ph.Eur./USP) Maximum 0.5 %</p> <p>Sulphated Ash (As per Ph.Eur.) Maximum 0.1 %</p>



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Sr.No.	Information	
		<p>Residue on Ignition (As per USP)      Not more than 0.5 %</p> <p>Free Iodine &amp; Iodide (As per USP)      Not more than 0.05 % of Iodide</p> <p><b>Related Substances (As per Ph.Eur.)</b></p> <p>Impurity A                                      Not more than 2.0 %</p> <p>Impurity B                                      Not more than 1.0 %</p> <p>Impurity C                                      Not more than 1.0 %</p> <p>Unspecified      Impurities              For each impurity Not more than 0.10 %</p> <p>Total      Impurities                      Maximum 3.0 %</p> <p><b>Assay</b></p> <p>Assay by Potentiometric (As per Ph.Eur.)      NLT 98.0% and NMT 102.0 % on dried basis</p> <p>Assay by GC ( As per USP )              NLT 93.0% and NMT 100.5% on dried basis</p> <p><b>Additional tests (In-house )</b></p> <p>Particle size                                      ~ 100 % passing through 20 mesh</p> <p>Bulk density                                      ~ 0.29 g/ml (Approx.)</p>
7	<b>Uses</b>	: It is used as antifungal, antiprotozoal, It is used in topical antifungal treatment, with combination of betamethasone it is used for inflammatory skin disorder. Ref .Wikipedia
8	<b>Packing</b>	: 5, 10 & 15 Kg net Fiber Drums with inner liner. 25 Kg Plastic Drums with inner liner
9	<b>Shelf life</b>	: <b>Expiry Date:</b> Five years from Date of manufacturing.
10	<b>Storage</b>	: Store in closed container in cool, dry place & protect from light, heat dust & other contaminants.