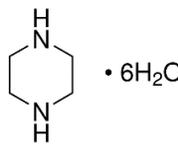




G. AMPHRAY LABORATORIES

Piperazine Hydrate BP/EP/IP CAS No. 142-63-2 $C_4H_{10}N_2 \cdot 6H_2O$	Product Data Sheet Molecular Weight : 194.2
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INFORMATION OF THE PRODUCT

Sr.No.	Information																																	
1	Name of the Product	: Piperazine Hydrate BP/EP/IP																																
2	Structure	: 																																
3	Composition	: It is composition of Piperazine salt and water																																
4	Chemical Name (IUPAC)	: Piperazine Hydrate																																
5	Properties	: Anthelmintic																																
6	Specification	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Appearance (As per Ph. Eur./IP)</td> <td style="width: 50%;">A colourless, deliquescent crystals. It melts at about 43 °c.</td> </tr> <tr> <td>Solubility (As per Ph. Eur./IP)</td> <td>Freely soluble in water and alcohol.</td> </tr> <tr> <td colspan="2">Identification</td> </tr> <tr> <td>A) IR (As per Ph. Eur./IP)</td> <td>IR spectrum of sample is concordant with that of the reference standard</td> </tr> <tr> <td>B) TLC (As per Ph. Eur./IP)</td> <td>The R_f value of the principal spot obtained from the test solution correspond to that obtained from the standard solution</td> </tr> <tr> <td>C) Melting point (As per Ph. Eur.)</td> <td>The melting range is Between 191° C to 196° C</td> </tr> <tr> <td>D) Melting point (As per IP)</td> <td>It melts at about 159° C</td> </tr> <tr> <td>Appearance of solution (As per Ph. Eur. / IP)</td> <td>The solution is clear and colourless</td> </tr> <tr> <td>Related Substances (As per Ph. Eur. /IP)</td> <td>Ethylene diamine : NMT- 0.25 %. Triethylene diamine : NMT- 0.25 %.</td> </tr> <tr> <td>Heavy Metal (As per Ph. Eur. /IP)</td> <td>NMT 20 ppm</td> </tr> <tr> <td>Sulfated Ash (As per Ph. Eur. /IP)</td> <td>NMT 0.1 %</td> </tr> <tr> <td>pH (As per IP)</td> <td>10.5 to 12.0</td> </tr> <tr> <td colspan="2">Assay</td> </tr> <tr> <td>Assay by titration (As per Ph.Eur./ IP)</td> <td>98.0 % to 101.0%</td> </tr> <tr> <td colspan="2">Additional tests (In-house)</td> </tr> <tr> <td>Particle size</td> <td>~ 100 % passing through 16 mesh / 30 mesh</td> </tr> </table>	Appearance (As per Ph. Eur./IP)	A colourless, deliquescent crystals. It melts at about 43 °c.	Solubility (As per Ph. Eur./IP)	Freely soluble in water and alcohol.	Identification		A) IR (As per Ph. Eur./IP)	IR spectrum of sample is concordant with that of the reference standard	B) TLC (As per Ph. Eur./IP)	The R _f value of the principal spot obtained from the test solution correspond to that obtained from the standard solution	C) Melting point (As per Ph. Eur.)	The melting range is Between 191° C to 196° C	D) Melting point (As per IP)	It melts at about 159° C	Appearance of solution (As per Ph. Eur. / IP)	The solution is clear and colourless	Related Substances (As per Ph. Eur. /IP)	Ethylene diamine : NMT- 0.25 %. Triethylene diamine : NMT- 0.25 %.	Heavy Metal (As per Ph. Eur. /IP)	NMT 20 ppm	Sulfated Ash (As per Ph. Eur. /IP)	NMT 0.1 %	pH (As per IP)	10.5 to 12.0	Assay		Assay by titration (As per Ph.Eur./ IP)	98.0 % to 101.0%	Additional tests (In-house)		Particle size	~ 100 % passing through 16 mesh / 30 mesh
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Sr.No.	Information	
7	Uses	: It is used as a partial intestinal obstruction by the common roundworms, a condition primarily occurring in children. Ref .Wikipedia
8	Packing	: 25 Kg. or 40 Kg. or 50 Kg. Fibre Drums with inner liner 25 Kg. or 50 Kg. Plastic Drums with inner liner
9	Shelf life	: Expiry Date: Five years from Date of manufacturing.
10	Storage	: Store in closed container in cool, dry place & protect from light, heat dust & other contaminants.