



# G. AMPHRAY LABORATORIES

| Piperazine Adipate BP/EP/USP/IP                  |                       | Product Data Sheet       |  |
|--|-----------------------|--------------------------|--|
| CAS No. 142-88-1<br>$C_4H_{10}N_2, C_6H_{10}O_4$ |                       | Molecular Weight : 232.3 |  |
| INFORMATION OF THE PRODUCT                       |                       |                          |  |
| Sr.No.   | Information           |                          |  |
| 1  | Name of the Product   | :                        | Piperazine Adipate BP/EP/USP/IP  |
| 2  | Structure             | :                        |  |
| 3  | Composition           | :                        | It is composition of Piperazine salt and adipic acid   |
| 4  | Chemical Name (IUPAC) | :                        | Piperazine Adipate   |
| 5  | Properties            | :                        | Anthelmintic   |
| 6  | Specification         | :                        | <p>Appearance (As per Ph. Eur./IP /USP)      A white or almost white crystalline powder. It melts about 250 ° C</p> <p>Solubility (As per Ph. Eur./USP/IP)      Soluble in water,</p> <p><b>Identification</b></p> <p>A) IR (As per Ph. Eur./USP/IP)      IR spectrum of sample is concordant with that of the reference standard</p> <p>b) TLC (As per Ph. Eur./USP/IP)      The Rf value of the principal spot obtained from the test solution correspond to that obtained from the standard solution</p> <p>C) Melting point (As per Ph. Eur./USP)      The melting range is Between 150° C to 154° C</p> <p>D) Identification (As per IP)      A reddish colour develop</p> <p>Appearance of solution (As per Ph. Eur. / IP)      The solution is clear and colourless</p> <p>Related Substances (As per Ph. Eur. /IP), Chromatographic purity (As per USP)      Ethylene diamine : NMT- 0.25 %.<br/>Triethylene diamine : NMT- 0.25 %.</p> <p>Heavy Metal (As per Ph. Eur. /IP)      NMT 20 ppm</p> <p>Water (As per Ph. Eur. /IP/USP)      NMT 0.5 %</p> <p>Sulfated Ash (As per Ph. Eur. /IP )      NMT 0.1 %</p> <p>pH (As per IP)      5.0 to 6.0</p> |



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| Sr.No. | Information       |   |
|--------|-------------------|---|
|        |                   | <p><b>Assay</b><br/>Assay by titration (As per Ph.Eur./ IP/USP )      98.0 % to 101.0% calculated on the anhydrous basis</p> <p><b>Additional In-house tests</b><br/>Particle size      ~ 100 % passing through 16 mesh / 30 mesh<br/>Bulk density      ~ 0.7 g/ml (Approx. )</p> |
| 7      | <b>Uses</b>       | : It is used as an anthelmintic for human and farm animal against intestinal roundworms and pinworms infection.<br>Ref .Wikipedia   |
| 8      | <b>Packing</b>    | : 25 Kg. or 40 Kg. or 50 Kg. Fibre Drums with inner liner<br>25 Kg. or 50 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.  |