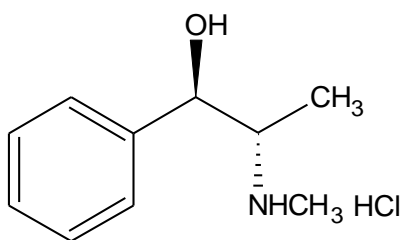


**(l)-Ephedrine Hydrochloride USP**



**l-Ephedrine HCl**

**Molecular Formula:** C<sub>10</sub>H<sub>15</sub>NO. HCl

**Molecular weight:** 201.69

**CAS No.:** [50-98-6]

**Chemical Name:**

1. Benzenemethanol,  $\alpha$ -[1-(methylamino)ethyl]-, hydrochloride [R-(R\*,S\* )], salt
2. (1R,2S)-2-Methylamino-1-phenyl propan-1-ol Hydrochloride

**Specifications:**

- |                                  |   |
|----------------------------------|---|
| 1. Description                   | : Colourless crystals or white crystalline powder   |
| 2. Identification                | : a) Infrared spectrum of sample is concordant with the reference spectrum.<br>b) A solution of sample respond to the test for chloride |
| 3. Solubility                    | : Freely soluble in water and soluble in alcohol  |
| 4. Melting range                 | : Between 217° and 220°C; the range between beginning and end of melting does not exceed 2°C  |
| 5. Specific rotation             | : Between - 33.0° and - 35.5° ( 5 % solution in water )   |
| 6. Acidity & alkalinity          | : NMT 0.10 ml of 0.02 N H <sub>2</sub> SO <sub>4</sub> or NMT 0.20 ml of 0.02 N NaOH solution   |
| 7. Sulfate                       | : Must pass the test. No turbidity develops within 10 min.  |
| 8. Ordinary impurities           | : NMT 2.0 %   |
| 9. Residue on ignition           | : NMT 0.1 %   |
| 10. Loss on drying               | : NMT 0.5 %   |
| 11. Organic volatile impurities: | Must pass the test  |
| 12. Assay                        | : Between 98.0 % and 100.5 % ( dried basis )  |

**Therapeutic indications:** Bronchodilator

**Packing:** Packed in double lined polyethylene bags in 25 kg fiber drums.

**Storage:** Store below 35°C.