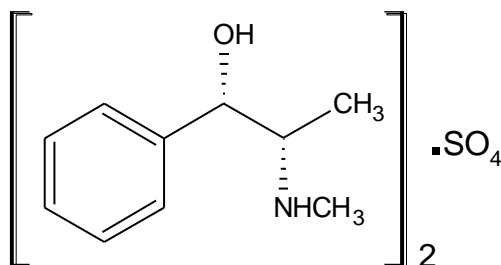


**(d)-Pseudoephedrine Sulfate USP**



d-Pseudoephedrine sulphate

**Molecular Formula:**  $C_{20}H_{30}N_2O_2 \cdot H_2SO_4$

**Molecular weight:** 428.54

**CAS No.:** [7460-12-0]

**Chemical Name:**

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

**Specifications:**

- |                         |   |
|-------------------------|---|
| 1. Description          | : Colourless crystals or white crystalline powder.  |
| 2. Identification       | : A) Infrared absorption spectrum is concordant with reference standard material.<br>: B) UV : Should pass the test; absorptivities at 257 nm, calculated on dried basis do not differ by more than 3.0 %<br>: C) A solution of material responds to the test for sulfates. |
| 3. Melting range        | : Between 174° and 179°C; the range between beginning and end of melting does not exceed 2°C  |
| 4. Specific Rotation    | : Between + 56.0 ° and + 59.0° (5 % solution in water)  |
| 5. Loss on drying       | : NMT 2.0 % w/w   |
| 6. Solubility           | : Freely soluble in water   |
| 7. pH                   | : Between 5.0 and 6.5 (5 % solution in water)   |
| 8. Residue on ignition  | : Not more than 0.10 % w/w  |
| 9. Chloride content     | : Not more than 0.14 % w/w  |
| 10. Heavy metals        | : Not more than 10 ppm  |
| 11. Ordinary impurities | : Not more than 2.0 % w/w   |
| 12. Assay               | : Between 98.0 % and 100.5 % w/w (dried basis)  |

**Therapeutic indications:** Decongestant

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

**Storage:** Store below 35°C.