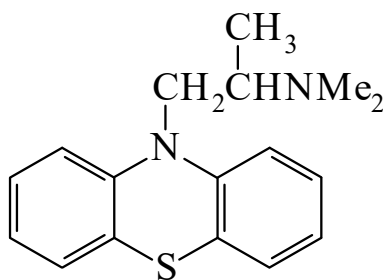




>>Entry Name: Promethazine, BAN

Synonym(s): *N,N*, α -Trimethyl-10*H*-phenothiazine-10-ethanamine, 9Cl. 10-[2-(Dimethylamino)propyl]phenothiazine, 8Cl. Diphergan. Prothazine



CAS Registry Number: 60-87-7

Related CAS Registry Numbers(s): 15374-15-9 92998-17-9

Molecular Formula: C₁₇H₂₀N₂S

Molecular Weight: 284.424

Accurate Mass: 284.134718

Percentage Composition: C 71.79%; H 7.09%; N 9.85%; S 11.27%

Use/Importance: Histamine H₁-receptor antagonist. Used to treat hypersensitivity reactions, as an antiemetic; and as an ingredient of cough and cold preparations

Calculated Log P Data: Log P 4.73 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 326 mg/kg. Exp. reprod. and teratogenic effects

>>Variant: (+)-form

CAS Registry Number: 67253-23-0

Molecular Formula: C₁₇H₂₀N₂S

Molecular Weight: 284.424

Accurate Mass: 284.134718

Percentage Composition: C 71.79%; H 7.09%; N 9.85%; S 11.27%

Melting Point: Mp 218-219°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +6.7$ (c, 4.5 in H₂O)

>>Derivative: Hydrochloride

Melting Point: Mp 220-221°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +7.6$ (c, 4.5 in H₂O)

>>Variant: (–)-form

Molecular Formula: C₁₇H₂₀N₂S

Molecular Weight: 284.424

Accurate Mass: 284.134718

Percentage Composition: C 71.79%; H 7.09%; N 9.85%; S 11.27%

>>Derivative: Hydrochloride

Melting Point: Mp 219-221°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -7.6$ (c, 4.5 in H₂O)

>>Variant: (±)-form

CAS Registry Number: 73745-50-3

Molecular Formula: C₁₇H₂₀N₂S

Molecular Weight: 284.424

Accurate Mass: 284.134718

Percentage Composition: C 71.79%; H 7.09%; N 9.85%; S 11.27%

Physical Description: Crystalline mass

Melting Point: Mp 60°

Boiling Point: Bp₃ 190-192°