



Optical Rotation: $[\alpha]_{\text{D}}^{20} -62$ (H₂O)

Other Data: Component of Actifed, Phenergan and numerous proprietary formulations

Hazard & Toxicity: Human systemic effects if ingested. LD₅₀ (mus, orl) 371 mg/kg

Aldrich: 29461-6

Fluka: 82448

Rare Chemicals Library: S60367-8

Sigma: J6538

>>**Derivative:** Sulfate

Synonym(s): Pseudoephedrine sulfate, USAN. Afrinol. D-Isoephedrine sulfate, JAN

CAS Registry Number: 7460-12-0

Other Data: Component of Disophrrol and Drixoral

Aldrich: 29419-5

Sigma: E1258

>>**Derivative:** *N*-De-Me

>>**Derivative:** *N*-Me

>>**Variant:** (1*S*,2*R*)-form

Synonym(s): (+)-Ephedrine

CAS Registry Number: 321-98-2

Molecular Formula: C₁₀H₁₅NO

Molecular Weight: 165.235

Accurate Mass: 165.115364

Percentage Composition: C 72.69%; H 9.15%; N 8.48%; O 9.68%

Source/Synthesis: Synthetic

Use/Importance: Resolving agent for aldehydes and ketones. Shows about 1/3 the pharmacol. activity of (–)-ephedrine

Melting Point: Mp 40-40.5°

Hazard & Toxicity: LD₅₀ (mus, ipr) 255 mg/kg

Sigma: E7385

>>**Derivative:** Hydrochloride

CAS Registry Number: 24221-86-1

Melting Point: Mp 217-218°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +34$ (H₂O)

Aldrich: 85733-5

Fluka: 45280

Sigma: E9507

>>**Variant:** (1*R**S*,2*R**S*)-form

Synonym(s): (±)-ψ-Ephedrine. **Racephedrine**, BAN, INN

CAS Registry Number: 4125-58-0

Molecular Formula: C₁₀H₁₅NO

Molecular Weight: 165.235

Accurate Mass: 165.115364

Percentage Composition: C 72.69%; H 9.15%; N 8.48%; O 9.68%

Source/Synthesis: Synthetic

Use/Importance: Sympathomimetic agent

Melting Point: Mp 118°

>>**Variant:** (1*R**S*,2*S**R*)-form

Synonym(s): (±)-Ephedrine