



Other Data: Component of Amesec, Bronkotabs, Primatene M, Primatene P, Quadrinal, Quibron Plus and Tedral

Hazard & Toxicity: Adverse effects when used therapeutically

Aldrich: 86223-1

Fluka: 45285

Sigma: E3125

>> **Derivative:** Sulfate

Synonym(s): Ephedrine sulfate, USAN. Isofedrol

CAS Registry Number: 134-72-5

Other Data: Component of Wyanoids

Hazard & Toxicity: Adverse effects when used therapeutically. LD₅₀ (rat, orl) 404 mg/kg

Sigma: E3250

>> **Derivative:** N-Me

>> **Derivative:** N-Ac

CAS Registry Number: 52305-20-1

Molecular Formula: C₁₂H₁₇NO₂

Molecular Weight: 207.272

Accurate Mass: 207.125929

Percentage Composition: C 69.54%; H 8.27%; N 6.76%; O 15.44%

Melting Point: Mp 85-86°

Optical Rotation: [α]_D²⁰ +8 (EtOH). [α]_D²⁰ -63 (CHCl₃)

>> **Derivative:** Compd. with theophylline

>> **Derivative:** Nitrate salt

CAS Registry Number: 81012-98-8

Melting Point: Mp 126-128°

Optical Rotation: [α]_D²¹ -31 (c, 5 in H₂O)

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

Synonym(s): ψ -Ephedrine. Pseudoephedrine, BAN, INN. Isoephedrine

CAS Registry Number: 90-82-4

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%

Biological Source: Alkaloid from *Ephedra vulgaris* var. *helvetica* and many other *Ephedra* spp., and from *Roemeria refracta* and *Sida cordifolia* (Ephedraceae, Papaveraceae, Malvaceae)

Use/Importance: Shows somewhat similar pharmacol. activity to Ephedrine but has less pressor activity and CNS effects

Melting Point: Mp 117-118°

Optical Rotation: [α]_D +52 (EtOH)

pKa Value: pK_a 9.57 (30°)

Calculated Log P Data: Log P 0.89 (calc)

Other Data: Also used as a copolymer with sulfonated styrene-divinylbenzene (Pseudoephedrine polistirex, USAN) as a nasal decongestant

Hazard & Toxicity: Adverse effects when used therapeutically. LD₅₀ (rat, orl) 660 mg/kg

Aldrich: 28763-6

Fluka: 82545

Sigma: E2625

>> **Derivative:** Hydrochloride

Synonym(s): Pseudoephedrine hydrochloride, USAN. Dorrol. Novafed. Sudafed

CAS Registry Number: 345-78-8