



Melting Point: Mp 180-181°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -42.7$ (H₂O)

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

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

Synonym(s): (+)-Norephedrine

CAS Registry Number: 37577-28-9

Molecular Formula: C₉H₁₃NO

Molecular Weight: 151.208

Accurate Mass: 151.099714

Percentage Composition: C 71.49%; H 8.67%; N 9.26%; O 10.58%

Source/Synthesis: Synthetic

Melting Point: Mp 52°

Optical Rotation: $[\alpha]_{\text{D}}^{27} +14.76$ (EtOH)

Aldrich: 31750-0

Fluka: 74528

Sigma: P6167

>>**Derivative:** Hydrochloride

CAS Registry Number: 40626-29-7

Melting Point: Mp 171-172°

Optical Rotation: $[\alpha]_{\text{D}}^{27} +33.4$ (EtOH)

Aldrich: 19362-3

Fluka: 74535

Sigma: P3044

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

>>**Derivative:** *N,N*-Dibutyl

CAS Registry Number: 114389-70-7

Molecular Formula: C₁₇H₂₉NO

Molecular Weight: 263.422

Accurate Mass: 263.224914

Percentage Composition: C 77.51%; H 11.10%; N 5.32%; O 6.07%

Use/Importance: Chiral catalyst, e.g. for enantioselective addn. of R₂Zn to aldehydes

Physical Description: Oil

Boiling Point: Bp₂ 170°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -24.4$ (c, 2 in hexane)

Aldrich: 40009-2

Fluka: 34778

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

Synonym(s): Norephedrine

CAS Registry Number: 492-41-1

Molecular Formula: C₉H₁₃NO

Molecular Weight: 151.208

Accurate Mass: 151.099714

Percentage Composition: C 71.49%; H 8.67%; N 9.26%; O 10.58%

Biological Source: Alkaloid from ``Ma Huang'', *Ephedra vulgaris* and *Catha edulis* (Ephedraceae, Celastraceae)

Melting Point: Mp 51°

Optical Rotation: $[\alpha]_{\text{D}} -15$ (EtOH)

Aldrich: 28255-3

Fluka: 74530

Sigma: N1388