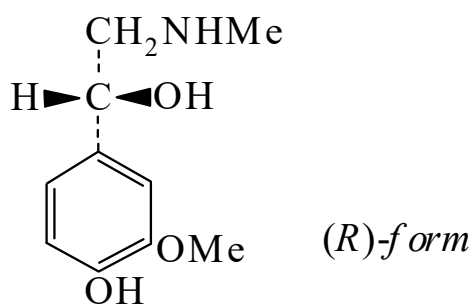




>>Entry Name: Metanephrine

Synonym(s): 4-Hydroxy-3-methoxy- α -[(methylamino)methyl]benzenemethanol, 9Cl. α -[(Methylamino)methyl]vanillyl alcohol, 8Cl. O^3 -Methyladrenaline. Metadrenaline



CAS Registry Number: 5001-33-2

Related CAS Registry Numbers(s): 2282-54-4 105870-52-8

Molecular Formula: $C_{10}H_{15}NO_3$

Molecular Weight: 197.233

Accurate Mass: 197.105194

Percentage Composition: C 60.90%; H 7.67%; N 7.10%; O 24.34%

Biological Source: Alkaloid from *Coryphantha macromeris* var. *runyonii* (Cactaceae). Also obt. from biol. sources e.g. urine

Use/Importance: Sympathomimetic agent

Melting Point: Mp 158-159°

Other Data: Opt. rotn. of nat. alkaloid not detd., but abs. config. v. prob. (*R*-)

>>Derivative: *N*-Me

Synonym(s): *N*-Methylmetanephrine

Molecular Formula: $C_{11}H_{17}NO_3$

Molecular Weight: 211.26

Accurate Mass: 211.120844

Percentage Composition: C 62.54%; H 8.11%; N 6.63%; O 22.72%

Biological Source: Trace alkaloid present in *Coryphantha macromeris* var. *runyonii* (Cactaceae)

>>Variant: ($\pm$)-form

Molecular Formula: $C_{10}H_{15}NO_3$

Molecular Weight: 197.233

Accurate Mass: 197.105194

Percentage Composition: C 60.90%; H 7.67%; N 7.10%; O 24.34%

>>Derivative: Hydrochloride

CAS Registry Number: 881-95-8

Physical Description: Prisms (EtOH/Et₂O)

Melting Point: Mp 175 dec.°

Sigma: M8625

>>Derivative: *N*-De-Me

Synonym(s): Normetanephine

Melting Point: Mp 192-195° (hydrochloride)

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 625A, (*nmr*)

Axelrod, J. *et al.*, *J. Biol. Chem.*, 1958, **233**, 697, (*isol, synth*)

Keller, W.J. *et al.*, *J. Pharm. Sci.*, 1973, **62**, 408, (*isol*)

Manusadzhyan, V.G. *et al.*, *Zh. Org. Khim.*, 1974, **10**, 145, (*ms*)

Bryan, L.J. *et al.*, *J. Chromatogr.*, 1989, **487**, 29, (*hplc*)