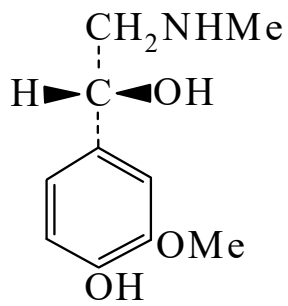
>>**Entry Name: Metanephrine**

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



(*R*)-*form*

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:** (±)-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 ($EtOH/Et_2O$)
Melting Point: Mp 175 dec.°

Sigma: M8625

>>**Derivative:** *N*-De-Me
Synonym(s): Normetanephrine

Melting Point: Mp 192-195° (hydrochloride)

References:

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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)*
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