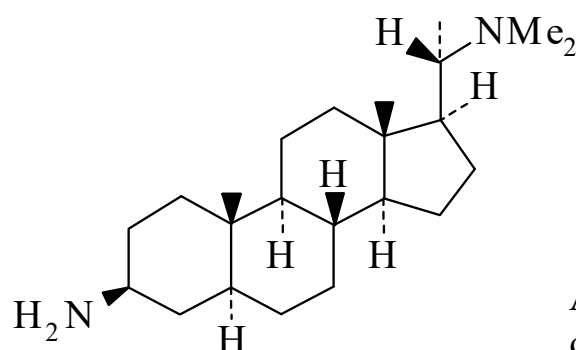




>>Entry Name: Chonemorphine

Synonym(s): 3 β -Amino-20 α -dimethylamino-5 α -pregnane



Absolute
configuration

CAS Registry Number: 4282-07-9

Molecular Formula: C₂₃H₄₂N₂

Molecular Weight: 346.598

Accurate Mass: 346.334798

Percentage Composition: C 79.70%; H 12.21%; N 8.08%

Biological Source: Main alkaloid of *Chonemorpha macrophylla* (*Chonemorpha fragrans*), isol. from *Chonemorpha penangensis*, *Malouetia bequaertiana*, *Dictyophleba lucida* and *Funtumia latifolia* (Apocynaceae)

Melting Point: Mp 144-146°

Optical Rotation: $[\alpha]_D^{32} +25$ (CHCl₃)

>>Derivative: Hydrochloride (1:2)

Melting Point: Mp 318-320°

>>Derivative: Hydrobromide (1:2)

Melting Point: Mp 312-314°

>>Derivative: *N*-Formyl

Synonym(s): *N*-Formylchonemorphine

Molecular Formula: C₂₄H₄₂N₂O

Molecular Weight: 374.609

Accurate Mass: 374.329713

Percentage Composition: C 76.95%; H 11.30%; N 7.48%; O 4.27%

Biological Source: Alkaloid from *Chonemorpha macrophylla* (Apocynaceae) and *Sarcococca saligna* (Buxaceae)

Melting Point: Mp 289-291°

Optical Rotation: $[\alpha]_D^{25} +25$ (c, 0.05 in MeOH)

>>Derivative: *N*-Ac

Synonym(s): Sarcorine, *N*-Acetylchonemorphine

Molecular Formula: C₂₅H₄₄N₂O

Molecular Weight: 388.635

Accurate Mass: 388.345363

Percentage Composition: C 77.26%; H 11.41%; N 7.21%; O 4.12%

Biological Source: Alkaloid possibly from *Malouetia bequaertiana* (Apocynaceae) and from aerial parts of *Sarcococca saligna*

Physical Description: Cryst. (Me₂CO) (also descr. as an oil)

Melting Point: Mp 272°

Optical Rotation: $[\alpha]_D +14$ (c, 1 in CHCl₃). $[\alpha]_D^{25} +49$ (c, 0.815 in CHCl₃) (Sarcorine)

Other Data: Sarcorine and the previously tentatively identified *N*-acetylchonemorphine are prob. identical but have not been compared.