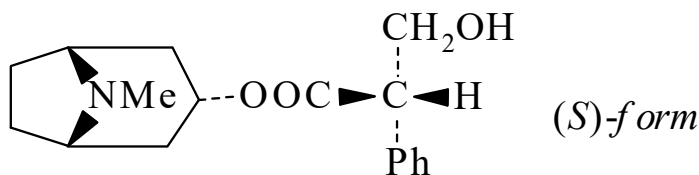




>>Entry Name: Tropine tropate

Synonym(s): 8-Methyl-8-azabicyclo[3.2.1]oct-3-yl α -(hydroxymethyl)benzeneacetate, 9Cl



Related CAS Registry Numbers(s): 620-61-1 5908-99-6 31610-87-4 56362-77-7 56362-78-8

Molecular Formula: $C_{17}H_{23}NO_3$

Molecular Weight: 289.374

Accurate Mass: 289.167794

Percentage Composition: C 70.56%; H 8.01%; N 4.84%; O 16.59%

Calculated Log P Data: Log P 1.32 (calc)

>>Variant: (S)-form

Synonym(s): Hyoscyamine, BAN, USAN, Daturine, Duboisine

CAS Registry Number: 101-31-5

Molecular Formula: $C_{17}H_{23}NO_3$

Molecular Weight: 289.374

Accurate Mass: 289.167794

Percentage Composition: C 70.56%; H 8.01%; N 4.84%; O 16.59%

Biological Source: Alkaloid from *Atropa*, *Datura*, *Duboisia*, *Hyoscyamus* and *Scopolia* spp. and several other genera in the Solanaceae, esp. some strains of *Duboisia myoporoides*

Use/Importance: Antimuscarinic agent with approx. twice potency of atropine. Spasmolytic agent

Melting Point: Mp 108-111°

Optical Rotation: $[\alpha]_D^{15} -22$ (50% EtOH aq.)

Calculated Log P Data: Log P 1.32 (calc)

Other Data: Bronchodilator, sedative, analgesic. Racemises slowly in EtOH to Atropine, more rapidly in alkali or on melting; sometimes occurs naturally as partial racemate. Pharmacol. active isomer

Hazard & Toxicity: Adverse effects on CNS and peripheral nerves. Adverse ocular effects. Can cause death. LD₅₀ (mus, ivn) 95 mg/kg

Sigma: H9002

>>Derivative: Hydrobromide

Synonym(s): Hyoscyamine hydrobromide, USAN

CAS Registry Number: 306-03-6

Melting Point: Mp 151°

Other Data: Deliquescent. Component of Dolonil and Pyridium Plus

Sigma: H9253

>>Derivative: Sulfate (2:1)

Synonym(s): Hyoscyamine sulfate, USAN, Anaspaz, Peptard

CAS Registry Number: 6835-16-1

pKa Value: pK_a 9.68 (21°)

Other Data: Component of Donnagel, Donnazyme, Kinesed and Spalix

>>Derivative: Picrate

CAS Registry Number: 5934-49-6

Melting Point: Mp 165°