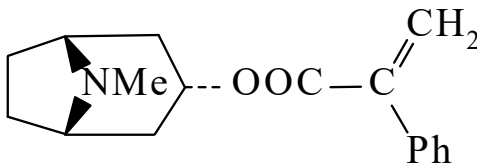




>>Entry Name: Apatropine

Synonym(s): 8-Methyl-8-azabicyclo[3.2.1]oct-3-yl  $\alpha$ -methylenebenzeneacetate, 9Cl. Tropine atropate. Atropamine. Atropyltropein



CAS Registry Number: 500-55-0

Molecular Formula: C<sub>17</sub>H<sub>21</sub>NO<sub>2</sub>

Molecular Weight: 271.358

Accurate Mass: 271.157229

Percentage Composition: C 75.25%; H 7.80%; N 5.16%; O 11.79%

Biological Source: Alkaloid from *Atropa belladonna*, *Datura pruinosa*, *Datura stramonium*, *Duboisia leichhardtii*, *Anisodus tanguticus* root, *Hyoscyamus orientalis*, *Mandragora* spp., *Physochlaina alaica* and other spp. (Solanaceae). Also obt. by dehydration of atropine with acids, acetic anhydride, etc.

Use/Importance: Antispasmodic agent

Physical Description: Cryst. (Et<sub>2</sub>O)

Melting Point: Mp 60-62°

Calculated Log P Data: Log P 2.64 (calc)

>>Derivative: Hydrochloride

Physical Description: Leaflets (H<sub>2</sub>O)

Melting Point: Mp 245-246° (237-239°)

>>Derivative: Picrate

Physical Description: Yellow needles

Melting Point: Mp 166-168°

>>Derivative: N-Oxide

Molecular Formula: C<sub>17</sub>H<sub>21</sub>NO<sub>3</sub>

Molecular Weight: 287.358

Accurate Mass: 287.152144

Percentage Composition: C 71.06%; H 7.37%; N 4.87%; O 16.70%

Physical Description: Cryst. (EtOH/Me<sub>2</sub>CO)

Melting Point: Mp 127-128°

>>Derivative: N-De-Me

Synonym(s): Aponoratropine. Atropoylnortropan-3-ol

Molecular Formula: C<sub>16</sub>H<sub>19</sub>NO<sub>2</sub>

Molecular Weight: 257.332

Accurate Mass: 257.141579

Percentage Composition: C 74.68%; H 7.44%; N 5.44%; O 12.43%

Biological Source: Minor alkaloid from leaves of *Anthotroche myoporoides* (Solanaceae)

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Sharova, E.G. *et al.*, *Khim. Prir. Soedin.*, 1977, 126, (isol)

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