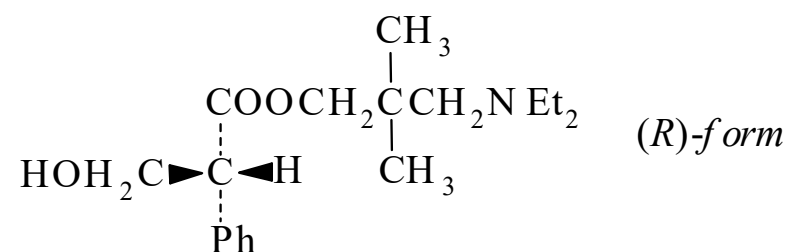




>> **Name:** Amprotropine

**Synonym(s):** 3-(Diethylamino)-2,2-dimethylpropyl  $\alpha$ -(hydroxymethyl)benzeneacetate, 9Cl. 3-Diethylamino-2,2-dimethylpropyl tropate, 8Cl



**CAS Registry Number:** 148-32-3

**Molecular Formula:** C<sub>18</sub>H<sub>29</sub>NO<sub>3</sub>

**Molecular Weight:** 307.432

**Accurate Mass:** 307.214744

**Percentage Composition:** C 70.32%; H 9.51%; N 4.56%; O 15.61%

**Use/Importance:** Antispasmodic, anticholinergic agent

**Calculated Log P Data:** Log P 2.51 (calc)

>> **Variant:** (*R*)-form

**Molecular Formula:** C<sub>18</sub>H<sub>29</sub>NO<sub>3</sub>

**Molecular Weight:** 307.432

**Accurate Mass:** 307.214744

**Percentage Composition:** C 70.32%; H 9.51%; N 4.56%; O 15.61%

>> **Derivative:** Hydrochloride

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +37

>> **Variant:** (*S*)-form

**Molecular Formula:** C<sub>18</sub>H<sub>29</sub>NO<sub>3</sub>

**Molecular Weight:** 307.432

**Accurate Mass:** 307.214744

**Percentage Composition:** C 70.32%; H 9.51%; N 4.56%; O 15.61%

>> **Derivative:** Hydrochloride

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -37

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

**Molecular Formula:** C<sub>18</sub>H<sub>29</sub>NO<sub>3</sub>

**Molecular Weight:** 307.432

**Accurate Mass:** 307.214744

**Percentage Composition:** C 70.32%; H 9.51%; N 4.56%; O 15.61%

>> **Derivative:** Phosphate

**Synonym(s):** Amprotropine phosphate. Syntropan. AP 407

**CAS Registry Number:** 134-53-2

**Physical Description:** Bitter cryst.

**Melting Point:** Mp 142-145°

**Other Data:** Aq. soln. acid to litmus

**Hazard & Toxicity:** LD<sub>50</sub> (rat, ivn) 43 mg/kg

#### References:

*Ger. Pat.*, 1934, *Hoffmann-La Roche*, 591 677; *CA*, **28**, 31875, (*synth*)

Burtner, R.P. *et al.*, *J.A.C.S.*, 1943, **65**, 262, (*synth*)

Blicke, F.F. *et al.*, *J.A.C.S.*, 1943, **65**, 1967, (*synth*)

Meyers, F.H. *et al.*, *J. Pharmacol. Exp. Ther.*, 1952, **104**, 387, (*pharmacol*)

*Martindale, The Extra Pharmacopoeia*, 28th/29th edn., *Pharmaceutical Press*, 1982, 5228

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, AOD250