



>>Entry Name: **Adiphenine**, INN

Synonym(s): 2-(Diethylamino)ethyl α -phenylbenzeneacetate, 9CI. 2-Diethylaminoethyl diphenylacetate. Adiphen. Difacil. Diphacil. Patrovina. Spasmolytin. NSC 129224

CAS Registry Number: 64-95-9

$\text{Ph}_2\text{CHCOOCH}_2\text{CH}_2\text{NEt}_2$

Molecular Formula: $\text{C}_{20}\text{H}_{25}\text{NO}_2$

Molecular Weight: 311.423

Accurate Mass: 311.188529

Percentage Composition: C 77.14%; H 8.09%; N 4.50%; O 10.28%

Biological Use/Importance: Smooth muscle relaxant, anticholinergic

Calculated Log P Data: Log P 4.35 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 600 mg/kg

>>Derivative: Hydrochloride

Synonym(s): Adiphenine hydrochloride, USAN. Paxil. **Trasentine**†. Vegantrin

CAS Registry Number: 50-42-0

Physical Description: Needles

Melting Point: Mp 113-114°

Solubility: Sol. H₂O

Hazard & Toxicity: LD₅₀ (mus, orl) 500 mg/kg

Rare Chemicals Library: S42345-9

Sigma: A3649

References:

Swiss Pat., 1938, *Ciba*, 190 541; *CA*, **32**, 589, (*synth*)

Swiss Pat., 1938, 192 070; *CA*, **32**, 4174, (*synth*)

Swiss Pat., 1938, 192 697; *CA*, **32**, 4284, (*synth*)

Japan. Pat., 1951, 177 596; *CA*, **45**, 7598, (*synth*)

Guy, J.J. *et al.*, *J.C.S. Perkin 2*, 1973, 942, (*cryst struct*)

Martindale, *The Extra Pharmacopoeia*, 28th/29th edn., *Pharmaceutical Press*, 1982, 336

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DHX800; THK000