



>>Entry Name: Demanyl phosphate

Synonym(s): Phosphoric acid mono[2-(dimethylamino)ethyl] ester, 9Cl. Mono-2-dimethylaminoethanol dihydrogen phosphate. Phosphoryldimethylaminoethanol. Phosphoryldimethylcholamine. Phosphoryldimethylethanolamine. PDMEA. Panclar. Pantos

CAS Registry Number: 6909-62-2

$\text{Me}_2\text{NCH}_2\text{CH}_2\text{OP}(\text{O})(\text{OH})_2$

Molecular Formula: $\text{C}_4\text{H}_{12}\text{NO}_4\text{P}$

Molecular Weight: 169.117

Accurate Mass: 169.050396

Percentage Composition: C 28.41%; H 7.15%; N 8.28%; O 37.84%; P 18.32%

Biological Source: Isol. from a choline-requiring mutant of *Neurospora crassa*

Use/Importance: Psychotonic agent

Physical Description: Cryst. + H_2O (EtOH)

Melting Point: Mp 78-81° (anhyd. 175-176°)

References:

Cherbuliez, E. *et al.*, *Helv. Chim. Acta*, 1956, **41**, 1168, (*synth*)

Wolf, B. *et al.*, *J. Biol. Chem.*, 1959, **234**, 1068, (*synth, isol*)

Ansell, G.B. *et al.*, *Biochem. J.*, 1966, **98**, 303, (*pharmacol*)

Taguchi, Y. *et al.*, *J.O.C.*, 1975, **40**, 2310, (*synth*)

Miyazaki, H. *et al.*, *Chem. Pharm. Bull.*, 1976, **24**, 763, (*metab*)

Martindale, *The Extra Pharmacopoeia*, 28th/29th edn., *Pharmaceutical Press*, 1982, 12624