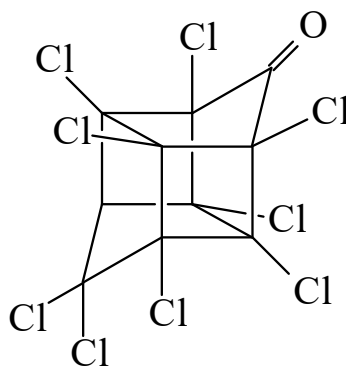




>>Entry Name: Decachloropentacyclo[5.2.1.0^{2,6}.0^{3,9}.0^{5,8}]decan-4-one

Synonym(s): 1,1a,3,3a,4,5,5a,5b,6-Decachlorooctahydro-1,3,4-methano-2*H*-cyclobuta[*cd*]pentalen-2-one, 9Cl. Perchloropentacyclo[5.3.0.0.^{2,6}.0^{3,9}.0^{4,8}]decan-5-one. Chlordecone, BSI, ISO. Clordecone. Kepone



CAS Registry Number: 143-50-0

Molecular Formula: C₁₀Cl₁₀O

Molecular Weight: 490.636

Accurate Mass: 485.683435

Percentage Composition: C 24.48%; Cl 72.26%; O 3.26%

Use/Importance: Insecticide. Now superseded

Melting Point: Mp 348-349°

Other Data: Generally isol. as hydrate (1-4 H₂O)

Supelco: R42-7160

References:

McBee, E.T. *et al.*, *J.A.C.S.*, 1956, **78**, 1511, (*synth, struct*)

U.K. Pat., 1962, 908 620; *CA*, **58**, 6718b, (*synth, activity*)

Dilling, W.L. *et al.*, *Tetrahedron*, 1967, **23**, 1211; 1225, (*ms, synth*)

Pesticide Manual, 5th edn., 1977, 94

Huff, J.E. *et al.*, *J. Environ. Pathol. Toxicol.*, 1978, **1**, 377, (*rev, use, tox*)

Harris, R.L. *et al.*, *Anal. Chem.*, 1980, **52**, 779, (*anal*)

Tilson, H.A. *et al.*, *Neurotoxicology*, 1982, **3**, 1, (*rev, tox*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, KEA000