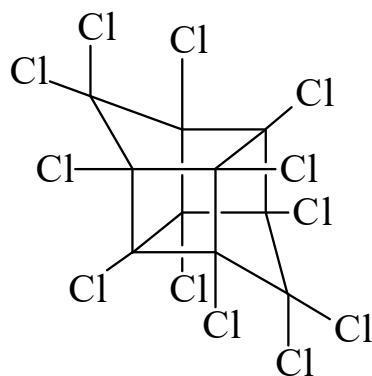




>>Entry Name: Dodecachloropentacyclo[5.3.0.0^{2,6}.0^{3,9}.0^{5,8}]decane

Synonym(s): 1,1a,2,2,3,3a,4,5,5,5a,5b,6-Dodecachlorocyclooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene, 9Cl. Perchloropentacyclo[5.3.0.0^{2,6}.0^{3,9}.0^{5,8}]decane. Dodecachlorodihomocubane. Mirex. Perchlordecone. Dechlorane



CAS Registry Number: 2385-85-5

Molecular Formula: C₁₀Cl₁₂

Molecular Weight: 545.542

Accurate Mass: 539.626224

Percentage Composition: C 22.02%; Cl 77.98%

General Statement: Dimer of 1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene [DBN79-C](#)

Use/Importance: Superseded organochlorine insecticide used against ants in particular. Common lipophilic environmental pollutant found in animal fats. Used in flame-retardant coatings

Physical Description: Cryst. solid

Melting Point: Mp 485°

Hazard & Toxicity: LD₅₀ (rat, orl) 235 mg/kg. LD₅₀ (rbt, skn) 800 mg/kg. Exp. carcinogen. Exp. reprod. and teratogenic effects

Rare Chemicals Library: S40970-7

Supelco: 4-9057

>>Derivative: 6-Dechloro

Synonym(s): 1,1a,2,2,3,3a,4,5,5,5a,5b-Undecachlorocyclooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene. Photomirex. Hydromirex. 8-Monohydromirex, 9Cl

CAS Registry Number: 39801-14-4

Molecular Formula: C₁₀HCl₁₁

Molecular Weight: 511.098

Accurate Mass: 505.665197

Percentage Composition: C 23.50%; H 0.20%; Cl 76.30%

Source/Synthesis: Photodec. prod. of Mirex

Physical Description: Cryst. (MeOH)

Other Data: Dec. >350° without melting. Lacks one of the bridgehead Cl atoms

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