



>>Entry Name: Tetraiodoethylene

Synonym(s): Periodoethylene. Diiodoform

CAS Registry Number: 513-92-8

$\text{I}_2\text{C}=\text{CI}_2$

Molecular Formula: C_2I_4

Molecular Weight: 531.64

Accurate Mass: 531.617892

Percentage Composition: C 4.52%; I 95.48%

Use/Importance: Antiseptic

Physical Description: Lemon-yellow leaflets (AcOH)

Melting Point: Mp 192°

Solubility: V. sol. CS_2 , C_6H_6 , CHCl_3 ; spar. sol. EtOH; insol. H_2O

Density: d^{20}_4 2.983

Calculated Log P Data: Log P 4.96 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, ivn) 56 mg/kg

Aldrich: 31824-8

Rare Chemicals Library: S56644-6

References:

Biltz, H. *et al.*, *Ber.*, 1904, **37**, 4412, (*synth*)

Datta, R.L. *et al.*, *J.A.C.S.*, 1917, **39**, 441, (*synth*)

Haywood, B.C. *et al.*, *Acta Cryst. B*, 1977, **33**, 1765, (*cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TDE250