



>>Entry Name: 1-Iodohexadecane

Synonym(s): Cetyl iodide. Hexadecyl iodide

CAS Registry Number: 544-77-4

Related CAS Registry Numbers(s): 40474-98-4

$\text{H}_3\text{C}(\text{CH}_2)_{14}\text{CH}_2\text{I}$

Molecular Formula: $\text{C}_{16}\text{H}_{33}\text{I}$

Molecular Weight: 352.341

Accurate Mass: 352.162698

Percentage Composition: C 54.54%; H 9.44%; I 36.02%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 22.5°

Boiling Point: Bp₁₅ 211°. Bp₄ 184°

Density: d 1.12

Refractive Index: n_{D}^{25} 1.4795

Other Data: n_{D}^{25} 1.4795

Hazard & Toxicity: Flammable, fl. p. 30°

Aldrich: 23827-9

Rare Chemicals Library: S56559-8

References:

Hauser, E.A. *et al.*, *J. Phys. Chem.*, 1941, **45**, 954

Org. Synth., Coll. Vol., 2, 1943, 322-323, (*synth*)

Munford, S.A. *et al.*, *J.C.S.*, 1950, 75-84

Bentley, F.F. *et al.*, *Spectrochim. Acta*, 1964, **20**, 105, (*ir*)

Suhara, Y. *et al.*, *Chem. Pharm. Bull.*, 2000, **48**, 903-907, (*synth, pmr, cmr*)