



>>Entry Name: Diiodosilane, 9CI

CAS Registry Number: 13760-02-6

H_2SiI_2

Molecular Formula: $\text{H}_2\text{I}_2\text{Si}$

Molecular Weight: 283.91

Accurate Mass: 283.801523

Percentage Composition: H 0.71%; I 89.40%; Si 9.89%

Source/Synthesis: Synth. from I_2 and PhSiH_3 with EtOAc catalyst

Use/Importance: Novel reagent for deoxygenation of alcohols and ethers. Used in production of acyl iodides from acyl chlorides, carboxylic acids, esters and anhydrides

Physical Description: Clear colourless oil

Melting Point: Fp 38°

Boiling Point: Bp $148\text{-}155^\circ$

Density: d^{20}_4 2.834

Aldrich: 33987-3

References:

Keinan, E. *et al.*, *J.O.C.*, 1987, **52**, 4846; 1990, **55**, 3922, (*synth, props, use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1989, **14**, 137, (*use*)