



>>Entry Name: Zinc iodide (ZnI₂)

CAS Registry Number: 10139-47-6

ZnI₂

Molecular Formula: I₂Zn

Molecular Weight: 319.199

Accurate Mass: 317.738091

Percentage Composition: I 79.51%; Zn 20.49%

blende struct. Linear in gas phase

Source/Synthesis: Synth. from elements

Physical Description: Colourless hygroscopic cryst. + 2H₂O (H₂O, < 0°)

Melting Point: Mp 446°

Boiling Point: Bp 624°

Solubility: V. sol. H₂O (432 g per 100 cm³ at 18°); sol. EtOH, Et₂O, Me₂CO, dioxan

Other Data: Sublimes *in vacuo*

Aldrich: 40927-8

Fluka: 96483

References:

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Gmelin Handbook Inorg. Chem., Syst. No. 32, 1956, 895, (*rev, bibl*)

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Vergnat, P. *et al.*, *J. Chim. Phys. Phys.-Chim. Biol.*, 1970, **67**, 88, (*ir*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **2**, 1025, (*synth*)

Maciel, G.E. *et al.*, *J. Phys. Chem.*, 1977, **81**, 263, (*Zn-67 nmr*)

Fourcroy, P.H. *et al.*, *Acta Cryst. B*, 1978, **34**, 3160, (*cryst struct*)

Loewenschuss, A. *et al.*, *Ber. Bunsen-Ges. Phys. Chem.*, 1978, **82**, 69, (*Raman, matrix*)

Nishikida, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 154, (*Auger, pe*)

Givan, A. *et al.*, *J. Mol. Struct.*, 1978, **48**, 325, (*ir, Raman*)

Bancroft, E.M. *et al.*, *Chem. Phys.*, 1983, **75**, 277, (*pe*)

Hargittai, M. *et al.*, *Inorg. Chem.*, 1986, **25**, 3163, (*ed*)

Dreir, P. *et al.*, *J. Phys., Colloq.*, 1986, **C8**, 809, (*exafs*)