



>>Entry Name: Dysprosium iodide (DyI₂)

Synonym(s): Dysprosium diiodide

CAS Registry Number: 36377-94-3

Type of Compound Code(s): NC0225

DyI₂

Molecular Formula: DyI₂

Molecular Weight: 416.309

Accurate Mass: 417.738117

Percentage Composition: Dy 39.03%; I 60.97%

General Statement: Has CdCl₂ struct.

Physical Description: V. hygroscopic black solid

Melting Point: Mp 721 dec.°. Mp 695°

Solubility: Sol. THF (dark brown soln.). Dec. in H₂O, forming Dy(OH)₃

References:

Corbett, J.D. *et al.*, *Inorg. Chem.*, 1966, **5**, 938, (*synth*)

Baernighausen, H. *et al.*, *Rev. Chim. Miner.*, 1973, **10**, 141, (*cryst struct*)

Gmelin Handbook Inorg. Chem., Syst. No. 39, 1978, **C6**, 198, (*rev*)

Friedt, J.M. *et al.*, *Inorg. Chem.*, 1983, **22**, 2910, (*Mössbauer, synth*)

Kamenskaya, A.N. *et al.*, *Zh. Neorg. Khim.*, 1983, **28**, 2499; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1983, **28**, 1420, (*synth, uv-vis*)