



>>Entry Name: Iodine bromide (IBr)

Synonym(s): Iodine monobromide

CAS Registry Number: 7789-33-5

IBr

Molecular Formula: BrI

Molecular Weight: 206.809

Accurate Mass: 205.842809

Percentage Composition: Br 38.64%; I 61.36%

Use/Importance: Converts thioglycosides to glycosyl bromides

Physical Description: Dark red solid

Melting Point: Mp 41°

Boiling Point: Bp 116° dec.

Density:  $d_4^{15}$  4.414

Other Data:  $\Delta H_f^\circ$  -10.5 kJ mol<sup>-1</sup>. Ir  $\nu$  269 cm<sup>-1</sup>

Aldrich: 22484-7

Fluka: 57905

#### References:

Meerum-Terwogt, P.C.E., *Z. Anorg. Allg. Chem.*, 1905, **47**, 209, (*synth, dissoc*)

Cole, L.G. *et al.*, *J. Chem. Phys.*, 1952, **20**, 1543, (*dissoc, synth*)

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Yencha, A.J. *et al.*, *J. Phys. Chem.*, 1988, **92**, 5523, (*uv*)

Suzuki, M. *et al.*, *J. Mol. Spectrosc.*, 1989, **133**, 233, (*ir, uv*)

Kartha, K.P.K. *et al.*, *Tet. Lett.*, 1997, **38**, 8233-8236, (*use*)

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