



>>Entry Name: Silver(I) bromide (AgBr)

Synonym(s): Bromyrite

CAS Registry Number: 7785-23-1

AgBr

Molecular Formula: AgBr

Molecular Weight: 187.772

Accurate Mass: 185.843428

Percentage Composition: Ag 57.45%; Br 42.55%

Use/Importance: Used in photography. Commercially available

Biological Use/Importance: Topical antiinfective agent. Astringent

Physical Description: Yellowish, odourless powder. Darkens on exp. to light

Melting Point: Mp 430°

Boiling Point: Bp 1533°

Solubility: Insol. alcohols, most acids; mod. sol. conc. aq. ammonia; sol. solns. of alkali cyanides

Other Data: $\Delta H_f^\circ -99.5 \text{ kJ mol}^{-1}$, $\Delta G_f^\circ -96.3 \text{ kJ mol}^{-1}$

Aldrich: 22680-7

Fluka: 85145

References:

Jost, W. *et al.*, *Z. Phys. Chem., Abt. B*, 1936, **34**, 348, (conductivity)

Gurney, R.W. *et al.*, *Proc. R. Soc. London, A*, 1938, **164**, 151, (use)

Martin, M. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1945, **220**, 659, (anal)

Sathe, N.V. *et al.*, *J. Indian Chem. Soc.*, 1945, **22**, 29, (props)

Takahashi, H. *et al.*, *J. Phys. Soc. Jpn.*, 1987, **56**, 3593, (cryst struct, synth)

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