



>>Entry Name: Lutetium(III) bromide (LuBr₃)

Synonym(s): Lutetium tribromide

CAS Registry Number: 14456-53-2

LuBr₃

Molecular Formula: Br₃Lu

Molecular Weight: 414.679

Accurate Mass: 411.755778

Percentage Composition: Br 57.81%; Lu 42.19%

Physical Description: White solid

Melting Point: Mp 1025° (960°)

Boiling Point: Bp 1440°

Solubility: Sol. H₂O, THF

>>Derivative: Hexahydrate

CAS Registry Number: 15162-89-7

Molecular Formula: Br₃H₁₂LuO₆

Molecular Weight: 522.77

Accurate Mass: 519.819168

Percentage Composition: Br 45.85%; H 2.31%; Lu 33.47%; O 18.36%

Physical Description: Colourless cryst.

Solubility: Sol. H₂O

Other Data: Isostructural with corresp. chloride. Loses H₂O on controlled heating *in vacuo*

References:

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Giricheva, N.I. *et al.*, *Izv. Vyssh. Uchebn. Zaved., Khim. Khim. Tekhnol.*, 1974, **17**, 616; *CA*, **81**, 42590, (ed)

Ruscic, B. *et al.*, *Ann. Isr. Phys. Soc.*, 1984, **6**, 173, (pe)

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