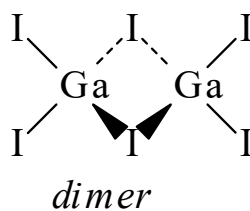




>>Entry Name: Gallium(III) iodide (GaI₃)

Synonym(s): Gallium triiodide



CAS Registry Number: 13450-91-4

Molecular Formula: GaI₃

Molecular Weight: 450.437

Accurate Mass: 449.638999

Percentage Composition: Ga 15.48%; I 84.52%

General Statement: Monomeric (*D*_{3h}) in vapour, dimeric as liq. and solid

Source/Synthesis: From Ga + I₂ in CS₂

Aldrich: 39911-6

>>Derivative: Dimer

Synonym(s): Di-μ-iodotetraiododigallium

CAS Registry Number: 18898-36-7

Molecular Formula: Ga₂I₆

Molecular Weight: 900.873

Accurate Mass: 899.277998

Percentage Composition: Ga 15.48%; I 84.52%

Physical Description: Pale yellow moisture-sensitive solid

Melting Point: Mp 214°

References:

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Morino, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1966, **39**, 71, (*ed*)
Kutek, F. *et al.*, *Coll. Czech. Chem. Comm.*, 1966, **31**, 1875, (*synth*)
Chadwick, J.R. *et al.*, *J. Inorg. Nucl. Chem.*, 1966, **28**, 1021, (*phase diagram*)
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