



>>Entry Name: Indium(III) sulfide (In₂S₃)

Synonym(s): Diindium trisulfide

CAS Registry Number: 12030-24-9

In₂S₃

Molecular Formula: In₂S₃

Molecular Weight: 325.838

Accurate Mass: 325.72397

Percentage Composition: In 70.48%; S 29.52%

Physical Description: Dark red solid. Yellow when pptd.

Melting Point: Mp 1050°

Other Data: ΔH_f -346 kJ mol⁻¹. E_g 2.0 eV. Related compd. with disordered S, Se, Te and some In(I) also descr.

Aldrich: 30829-3

Fluka: 57170

>>Variant: α -form

Synonym(s): Cubic-form

Molecular Formula: In₂S₃

Molecular Weight: 325.838

Accurate Mass: 325.72397

Percentage Composition: In 70.48%; S 29.52%

Physical Description: Moisture-sensitive solid

>>Variant: β -form

Synonym(s): Tetragonal-form

Molecular Formula: In₂S₃

Molecular Weight: 325.838

Accurate Mass: 325.72397

Percentage Composition: In 70.48%; S 29.52%

>>Variant: γ -form

Synonym(s): Trigonal-form

Molecular Formula: In₂S₃

Molecular Weight: 325.838

Accurate Mass: 325.72397

Percentage Composition: In 70.48%; S 29.52%

References:

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