



>>Entry Name: Indium tellurides

Molecular Formula: [InTe]

>>Variant: Indium telluride (In₄Te₃)

Synonym(s): Tetraindium tritelluride

CAS Registry Number: 12608-19-4

Molecular Formula: In₄Te₃

Molecular Weight: 842.08

Accurate Mass: 849.334207

Percentage Composition: In 54.54%; Te 45.46%

Source/Synthesis: From elements at 500°

Physical Description: Black needles

>>Variant: Indium telluride (InTe)

CAS Registry Number: 12030-19-2

Molecular Formula: InTe

Molecular Weight: 242.42

Accurate Mass: 244.810109

Percentage Composition: In 47.36%; Te 52.64%

Source/Synthesis: Synth. from elements at 700°

Physical Description: Black solid

Melting Point: Mp 696°

Other Data: Forms mixed cryst. with InAs, which has overall wurtzite struct. $\Delta H_f^\circ -38.4 \text{ kJ mol}^{-1}$, $S^\circ 5.8 \text{ J K}^{-1} \text{ mol}^{-1}$

>>Variant: Indium telluride (In₃Te₄)

Synonym(s): Triindium tetratelluride

CAS Registry Number: 12030-33-0

Molecular Formula: In₃Te₄

Molecular Weight: 854.86

Accurate Mass: 864.336556

Percentage Composition: In 40.29%; Te 59.71%

Source/Synthesis: Obt. from fused elements

Physical Description: Black cryst. (melt)

Other Data: $\Delta H_f^\circ -81.6 \text{ kJ mol}^{-1}$, $S^\circ 18.0 \text{ J K}^{-1} \text{ mol}^{-1}$

>>Variant: Indium telluride (In₂Te₃)

Synonym(s): Diindium tritelluride

CAS Registry Number: 1312-45-4

Molecular Formula: In₂Te₃

Molecular Weight: 612.44

Accurate Mass: 619.526447

Percentage Composition: In 37.50%; Te 62.50%

Source/Synthesis: Synth. from elements

Physical Description: Black brittle solid

Melting Point: Mp 667°

Other Data: Forms mixed cryst. with InAs

Aldrich: 46101-6

>>Variant: Indium telluride (In₃Te₅)

Synonym(s): Triindium pentatelluride

CAS Registry Number: 12508-77-9

Molecular Formula: In₃Te₅

Molecular Weight: 982.46

Accurate Mass: 994.242785

Percentage Composition: In 35.06%; Te 64.94%