



>>Entry Name: Diethyliodoaluminium

Synonym(s): Diethylaluminium iodide

CAS Registry Number: 2040-00-8

As Bromodiethylaluminium, [HQZ20-F](#) with
X = I

Molecular Formula: C₄H₁₀AlI

Molecular Weight: 212.009

Accurate Mass: 211.964262

Percentage Composition: C 22.66%; H 4.75%; Al 12.73%; I 59.86%

General Statement: Dimeric

Source/Synthesis: Synth. from Et₃Al and AlI₃

Use/Importance: Commercially available

Other Data: Relat. compd. Pr₂AlI also descr.

Aldrich: 25677-3

>>Derivative: Dimer

Synonym(s): Tetraethyldi-μ-iododialuminium, 9CI

CAS Registry Number: 51466-47-8

Molecular Formula: C₈H₂₀Al₂I₂

Molecular Weight: 424.018

Accurate Mass: 423.928524

Percentage Composition: C 22.66%; H 4.75%; Al 12.73%; I 59.86%

Physical Description: Air- and moisture-sensitive colourless liq.

Melting Point: Mp -57°

Boiling Point: Bp₄ 118-120°

Density: d²⁵ 1.583

>>Derivative: Me₂NH complex

Synonym(s): Diethyliodo(*N*-methylethanamine)aluminium, 9CI

CAS Registry Number: 36920-97-5

Molecular Formula: C₆H₁₇AlIN

Molecular Weight: 257.093

Accurate Mass: 257.022111

Percentage Composition: C 28.03%; H 6.66%; Al 10.49%; I 49.36%; N 5.45%

Physical Description: Colourless liq.

Boiling Point: Bp_{0.001} 85-86°

>>Derivative: Me₃N complex

CAS Registry Number: 15228-10-1

Molecular Formula: C₇H₁₉AlIN

Molecular Weight: 271.12

Accurate Mass: 271.037761

Percentage Composition: C 31.01%; H 7.06%; Al 9.95%; I 46.81%; N 5.17%

Physical Description: Colourless liq.

>>Derivative: *tert*-Butylamine complex

Synonym(s): Diethyliodo(2-methyl-2-propanamine)aluminium, 9CI

CAS Registry Number: 53043-41-7

Molecular Formula: C₈H₂₁AlIN

Molecular Weight: 285.147

Accurate Mass: 285.053411

Percentage Composition: C 33.70%; H 7.42%; Al 9.46%; I 44.51%; N 4.91%

Physical Description: Needles (hexane)

Melting Point: Mp 79-80°