



>>Entry Name: Aluminium(II) chloride (AlCl₂)

Synonym(s): Aluminium dichloride

CAS Registry Number: 16603-84-2

AlCl₂

Molecular Formula: AlCl₂

Molecular Weight: 97.887

Accurate Mass: 96.919243

Percentage Composition: Al 27.56%; Cl 72.44%

General Statement: Isol. in Ar matrix or as unstable solid

Source/Synthesis: Synth. from Al + AlCl₃ in heptane or *in vacuo* at 580°; or by cocondensation of Al atoms and HCl in an Ar matrix at 4K

Other Data: May be intermed. in formation of alkylaluminium deriv.

References:

Olah, G.A. *et al.*, *J.A.C.S.*, 1988, **110**, 3231, (*synth, ir*)

Koepppe, R. *et al.*, *J.A.C.S.*, 1996, **118**, 135, (*synth, matrix isol, epr, theory*)