



>>Derivative: Co(II) salt

CAS Registry Number: 13820-62-7

Molecular Formula: Al₂Cl₈Co

Molecular Weight: 396.518

Accurate Mass: 392.647092

Percentage Composition: Al 13.61%; Cl 71.53%; Co 14.86%

Use/Importance: Catalyst for polym. of 1,3-butadienes

Physical Description: Blue moisture sensitive needles

Other Data: Possesses struct. in which AlCl₄ tetrahedra and CoCl₆ octahedra share corners and edges

>>Derivative: Cu(II) salt

>>Derivative: Cd₂²⁽⁺⁾ salt

>>Derivative: Hg₃²⁽⁺⁾ salt

>>Derivative: Pd(II) salt

>>Derivative: Ho salt

>>Derivative: H compd.

Synonym(s): Hydrogen tetrachloroaluminate(1-) compd. with diethyl ether (2:3)

CAS Registry Number: 29061-29-8

Physical Description: Viscous colourless moisture sensitive oil

>>Derivative: NH₄ salt

CAS Registry Number: 7784-14-7

Molecular Formula: AlCl₄H₄N

Molecular Weight: 186.831

Accurate Mass: 184.891321

Percentage Composition: Al 14.44%; Cl 75.90%; H 2.16%; N 7.50%

Source/Synthesis: Obt. from NH₄Cl + AlCl₃ at 310°

Physical Description: White moisture sensitive solid

Melting Point: Mp 304°

Solubility: Sol. Et₂O

>>Derivative: Nitrosyl salt

CAS Registry Number: 20137-50-2

Molecular Formula: AlCl₄NO

Molecular Weight: 198.798

Accurate Mass: 196.854936

Percentage Composition: Al 13.57%; Cl 71.33%; N 7.05%; O 8.05%

Physical Description: Colourless moisture sensitive cryst.

Melting Point: Mp 180°