>>**Entry Name: Aluminium chloride hydroxide ($Al_2Cl(OH)_5$)**
Synonym(s): Aluminium chlorohydrate, USAN. Aluminium hydroxychloride. Basic aluminium chloride. Chlorhydrol. Astringen. Hyperdrol. Locron. Phosphonorm

CAS Registry Number: 12042-91-0
Extra CAS Registry Numbers(s): 1327-41-9 12598-07-1

$Al_2Cl(OH)_5$

Molecular Formula: $Al_2ClH_5O_5$
Molecular Weight: 174.452
Accurate Mass: 173.94563
Percentage Composition: Al 30.93%; Cl 20.32%; H 2.89%; O 45.86%
Source/Synthesis: Synth. from $AlCl_3$ + $Al(OH)_3$; formed by hydrol. of $AlCl_3$
Use/Importance: Used in antiperspirants
Biological Use/Importance: Antihyperphosphataemic
Physical Description: Cryst. + $2H_2O$

>>**Derivative:** Compd. with polyethylene glycol and propylene glycol
Synonym(s): Aluminium chlorohydrex, USAN**.** Rehydrol

CAS Registry Number: 53026-85-0
Extra CAS Registry Numbers(s): 173762-81-7 173762-82-8

Biological Use/Importance: Topical astringent

References:

Kohlschütter, H.W. *et al.*, *Z. Anorg. Allg. Chem.*, 1941, **248**, 319-344, *(synth)*
Brevil, H.*, Ann. Chim. (Paris)*, 1965, **10**, 467-493, *(synth)*
U.S. Pat., 1974, 3 798 317; *CA*, **81**, 54331z, *(Al chlorohydrex)*
Riesgraf, D.A. *et al.*, *Appl. Spectrosc.*, 1978, **32**, 362-366, *(ir)*
Teagarden, D.L. *et al.*, *J. Pharm. Sci.*, 1981, **70**, 758-761, *(ir, Al-27 nmr, cryst struct)*