>>**Entry Name: Aluminium carbonate**
Synonym(s): Carbonic acid aluminium salt (3:2), 11Cl

CAS Registry Number: 14455-29-9
Related CAS Registry Numbers(s): 53547-27-6
$Al_2(CO_3)_3$

Molecular Formula: $C_3Al_2O_9$
Molecular Weight: 233.991
Accurate Mass: 233.917313
Percentage Composition: C 15.40%; Al 23.06%; O 61.54%
General Statement: More commonly found as basic carbonate
Source/Synthesis: Synth. from aq. $Al^{3(+)}$ + $NaHCO_3$/Na_2CO_3
Use/Importance: Used as Al source in many industries

>>**Variant: Basic aluminium carbonate**
Synonym(s): Basaljel

CAS Registry Number: 1339-92-0

Molecular Formula: $CH_{30}Al_4O_{23}$
Molecular Weight: 518.16
Accurate Mass: 518.043951
Percentage Composition: C 2.32%; H 5.84%; Al 20.83%; O 71.02%
General Statement: May be hydroxycarbonate
Source/Synthesis: Synth. from $NH_4Al(SO_4)_2.12H_2O$ + NH_4HCO_3
Biological Use/Importance: Antacid. Phosphorus-binding agent. Prevents recurrent renal phosphatic calculi

References:

Dobrev, K. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1981, 92-99; *CA*, **96**, 113852e, *(basic carbonate)*
Feldkamp, J.R. *et al.*, *J. Pharm. Sci.*, 1981, **70**, 638-640, *(activity)*
Sema, C.J. *et al.*, *J. Pharm. Sci.*, 1983, **72**, 769-771, *(synth, activity)*
Packter, A. *et al.*, *Cryst. Res. Technol.*, 1987, **22**, 1015-1022; *CA*, **108**, 48028, *(synth)*