



Product Specification

Product Name: ALUMINIUM SULFATE 18-Hydrate AR

Alternate Name(s) aluminum trisulfate

Description

White crystals; sweet taste. Stable in air.

Properties

Chemical Formula: $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$

Molecular Weight: 666.42

Product Code: AA296

CAS No. 7784-31-8

General Information:

Insoluble in alcohol. Incompatible with water, strong bases and strong oxidising agents. Non combustible material. Reacts with water to produce corrosive sulfuric acid.

Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH0R

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

Quality Specification

Assay: 98.0 - 102.0%

Specific Properties and Impurities [Typical levels]:

Insoluble matter	≤ 0.01%
Chloride	≤ 0.005%
Iron	≤ 0.002%
Heavy metals (as Pb)	≤ 0.001%
Magnesium	≤ 0.002%
Potassium	≤ 0.005%
Sodium	≤ 0.02%
Calcium	≤ 0.01%
Melting point	90 °C (decomposition)
Specific Gravity	1.62 at 25 °C
Solubility in water	364 g/L @ 20 °C
pH Value	2.5-4.0 (20 g/1, H ₂ O, 20 °C)

CONFORMS TO ACS

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