



# Product Specification

## Product Name: ALUMINIUM NITRATE Nonahydrate AR

Alternate Name(s) Aluminum trinitrate

### Description

Colourless crystals. Solutions in water are slightly corrosive.

### Properties

Chemical Formula:  $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$

Molecular Weight: 375.13

Product Code: AA056

CAS No. 7784-27-2

### General Information:

Very soluble in alcohol. Slightly soluble in acetone. Almost insoluble in ethyl acetate. Incompatible with combustible material and metals. Not combustible but assists combustion of other substances.

### Hazard and Safety Data

UN Group: III  
Class: 5.1  
UN Number: 1438  
Hazchem code: 1Z  
CS MSDS Code: 1CH0N  
Poison schedule: Not Scheduled  
Emergency  
Procedure Guide No.: 31

### Quality Specification

Assay: 98.0 - 102.0%

### Specific Properties and Impurities [Typical levels]:

Decomposition Temp.	150 °C
Melting Point	73 °C
Solubility in Water (20 °C)	419 g/l
pH of a 5% solution @ 25°C	2.5 - 3.5
Colour (of a 30% w/w solution, APHA)	≤ 20
Insoluble matter	≤ 0.005%
Chloride (Cl)	≤ 0.001%
Sulfate (SO <sub>4</sub> )	≤ 0.005%
Heavy metals (as Pb)	≤ 0.001%
Calcium (Ca)	≤ 0.005%
Iron (Fe)	≤ 0.002%
Magnesium (Mg)	≤ 0.001%
Potassium (K)	≤ 0.002%
Sodium (Na)	≤ 0.005%

CONFORMS TO ACS

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