

Identification

Al(NO₃)₃·9H₂O
M = 375,13 g/mol
CAS [7784-27-2]
EC number: 236-751-8
Taric code: 2834 29 80

Applications

analytical chemistry, cosmetics, for the synthesis of: nitro compounds.

Specifications

assay (complexometric).....	98 - 102 %	copper (Cu).....	max. 0,001 %
insoluble in water.....	max. 0,005 %	heavy metals (as Pb).....	max. 0,001 %
pH (5 %, H ₂ O).....	2,0 - 4,0	iron (Fe).....	max. 0,002 %
chlorides (Cl).....	max. 0,001 %	lead (Pb).....	max. 0,001 %
sulfates (SO ₄).....	max. 0,005 %	magnesium (Mg).....	max. 0,001 %
ammonium (NH ₄).....	max. 0,02 %	potassium (K).....	max. 0,002 %
cadmium (Cd).....	max. 0,001 %	sodium (Na).....	max. 0,005 %
calcium (Ca).....	max. 0,005 %	zinc (Zn).....	max. 0,001 %
		non precipitable by NH ₄ OH (as SO ₄).....	max. 0,05 %

Physical data

- Appearance: humid crystals, colourless
- Bulk density: ~ 880 kg/m³
- Solub. in water: (20 °C): 419 g/l
- Melting point: 73 °C
- Boiling point: 135 °C (decomposes)
- pH(50 g/l H₂O, 20 °C) ~ 2 - 4

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
H315: Causes skin irritation.
H319: Causes serious eye irritation.



Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use ... for extinction.
P321: Specific treatment (see on this label).
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 III • UN 1438 • ALUMINIUM NITRATE
- IMDG: 5.1 III • UN 1438 • ALUMINIUM NITRATE
- IATA/ICAO: 5.1 III • UN 1438 • ALUMINIUM NITRATE
- PAX: 516
- CAO: 518
- 10°C - 30°C