

Identification

NH₄Cl
M = 53,49 g/mol
CAS [12125-02-9]
EC number: 235-186-4
Taric code: 2827 10 00

Synonyms

Salt ammoniac

Applications

manufacture of dyes, in explosive compositions, analytical chemistry.

Specifications

assay (argentometric).....	min. 99,5 %	copper (Cu).....	max. 2 ppm
assay (acidimetric, on dried sample).....	99,5 - 100,5 %	heavy metals.....	max. 5 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 2 ppm
appearance of solution.....	clear and colourless	lead (Pb).....	max. 1 ppm
insoluble matter.....	max. 0,005 %	magnesium (Mg).....	max. 5 ppm
pH (5 %, H ₂ O).....	4,5 - 5,5	nickel (Ni).....	max. 1 ppm
acidity or alkalinity.....	passes test	potassium (K).....	max. 0,005 %
bromides and iodides.....	passes test	sodium (Na).....	max. 0,005 %
phosphates (as PO ₄).....	max. 2 ppm	zinc (Zn).....	max. 2 ppm
sulfates (SO ₄).....	max. 0,002 %	residue on ignition.....	max. 1,0 %
calcium (Ca).....	max. 5 ppm	residue on ignition (800 °C).....	max. 0,01 %
		loss on drying (105 °C, 2h).....	max. 1,0 %

Physical data

- Appearance: crystals, white or almost white
- Spec. Density: 1,52 g/cm³
- Bulk density: ~ 500 kg/m³
- Solub. in water: (20 °C): 372 g/l
- Melting point: 335 °C (decomposes)
- Ignition temperature: > 400 °C
- Vapour pressure: (30 °C) 1,3 hPa
- pH(50 g/l H₂O, 20 °C) 4,5 - 5,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.
H319: Causes serious eye irritation.

**Precautionary Statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection.
P264: Wash thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313: If eye irritation persists: Get medical advice / attention.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C