

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, in pharma industry.

Specifications

assay (acidimetric, on dried sample).....	99,5 - 100,5 %	bromides and iodides	passes test
assay (argentometric, referred to dried sample)	99,0 - 100,5 %	sulfates (SO ₄).....	max. 150 ppm
Identification ammonium.....	passes test	limit of thiocyanate.....	passes test
Identification chloride.....	passes test	calcium (Ca).....	max. 200 ppm
acidity or alkalinity.....	passes test	iron (Fe).....	max. 20 ppm
appearance of solution.....	clear and colourless	residue on ignition (as SO ₄).....	max. 0,1 %
pH (5 %, H ₂ O).....	4,6 - 6,0	loss on drying (over silica gel).....	max. 0,5 %
		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