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ALUMINIUM AMMONIUM SULFATE DODECAHYDRATE

AL0740 Aluminium ammonium sulfate dodecahydrate, extra pure, Phampur®, USP

- Synonyms: Ammonium aluminium sulfate, Ammonium alum
- $NH_4Al(SO_4)_2 \cdot 12H_2O$
- M = 453,33 g/mol
- CAS [7784-26-1]
- EINECS-No.: 232-055-3
- Solub. in water: (20°C): 150 g/l
- Melting point: 93°C
- Boiling point: 200°C
- Tariff number: 2833 30 00 00
- Applications: for water purifying, manufacture of dyes, manufacturing of lacquers, in porcelain industry, in pharma industry.

assay (complexometric, referred to dried sample) 99,0 - 100,5 %
 identification passes test
 iron (Fe) passes test
 alkali and alkaline-earth salts max. 0,5 %
 loss on drying (300 °C) 45,0 - 48,0 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
AL07400500	500 g	
AL07401000	1 kg	

ALUMINIUM CHLORIDE HEXAHYDRATE

AL0770 Aluminium chloride hexahydrate, extra pure, Phampur®, Ph Eur, BP, USP 

- Synonyms: Hydrochloric acid aluminium salt hexahydrate
- $AlCl_3 \cdot 6H_2O$
- M = 241,43 g/mol
- CAS [7784-13-6]
- EINECS-No.: 231-208-1
- Solub. in water: (20 °C): 1330 g/l
- Melting point: ~ 100 °C
- LD 50 (oral, rat): 3311 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2827 32 00 00
- Applications: as gasoline additive, manufacture of dyes, cosmetics, in pharma industry.

assay (complexometric) 95,0 - 101,0 %
 assay (complexometric, referred to dried sample) 95,0 - 102,0 %
 identification passes test
 appearance of solution passes test
 sulfates (SO_4) max. 100 ppm
 sulfates (SO_4) passes test
 iron (Fe) max. 10 ppm
 alkali and alkaline earth metals max. 0,5 %
 water 42,0 - 48,0 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.

ART. NO.	VOLUME	CONTAINER
AL07700500	500 g	
AL07701000	1 kg	
AL0770005P	5 kg	
AL0770025P	25 kg	

ALUMINIUM HYDROXIDE

AL0795 Aluminium hydroxide, EssentQ®

- Synonyms: Gibbsite, Hydrargillite
- $Al(OH)_3$
- M = 78,00 g/mol
- CAS [21645-51-2]
- EINECS-No.: 244-492-7
- Solub. in water: (20°C): ~ 0,0015 g/l
- Melting point: 300°C (release of crystalline water)
- Vapour pressure: (20°C) 5000 mg/kg
- Tariff number: 2818 30 00 90

• Applications: chromatography, emulsifier, manufacture of dyes, in lubricant compositions, ion exchanger.
 assay (complexometric) min. 90 %
 arsenic (As) max. 3 ppm
 copper (Cu) max. 0,002 %
 iron (Fe) max. 0,01 %
 lead (Pb) max. 0,002 %
 nickel (Ni) max. 0,002 %
 residue on ignition 32 - 35 %

ART. NO.	VOLUME	CONTAINER
AL07950250	250 g	
AL07951000	1 kg	

ALUMINIUM NITRATE NONAHYDRATE

- $Al(NO_3)_3 \cdot 9H_2O$
- M = 375,13 g/mol
- CAS [7784-27-2]
- EINECS-No.: 236-751-8
- Solub. in water: (20 °C): 419 g/l
- Melting point: 73 °C
- Boiling point: 135 °C (decomposes)

- LD 50 (oral, rat): 3671 mg/kg
- ADR: 5.1 O2 III UN 1438
- IMDG: 5.1 III UN 1438
- IATA/ICAO: 5.1 III UN 1438
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319

- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, for the synthesis of: nitro compounds.
- Appearance: Semi-transparent to transparent crystals