

**Ammonium dihydrogen phosphate, for analysis, ExpertQ®, ACS,
Reag. Ph Eur****Identification** $(\text{NH}_4)_2\text{H}_2\text{PO}_4$

M = 115,03 g/mol

CAS [7722-76-1]

EC number: 231-764-5

Taric code:

Synonyms

Ammonium biphosphate, Ammonium phosphate monobasic, Primary ammonium phosphate, Monoammonium ortophosphate

Applications

in fertilizer compositions, analytical chemistry, in buffer solutions.

Specifications

assay (acidimetric).....	min. 98,0 %	calcium (Ca).....	max. 0,001 %
identity (IR-spectrum).....	passes test	heavy metals (as Pb).....	max. 5 ppm
insoluble in water.....	max. 0,005 %	iron (Fe).....	max. 0,001 %
pH (2,3 %, H ₂ O)	about 4,2	magnesium (Mg).....	max. 5 ppm
pH (5 %, H ₂ O).....	3,8 - 4,4	potassium (K).....	max. 0,005 %
chlorides (Cl).....	max. 5 ppm	sodium (Na).....	max. 0,005 %
nitrates (NO ₃).....	max. 0,001 %		
sulfates (SO ₄).....	max. 0,005 %		

Physical data

- Appearance: bright crystals, colourless
- Spec. Density: 1,80 g/cm³
- Bulk density: ~ 800 - 1100 kg/m³
- Solub. in water: (20 °C): 370 g/l
- Melting point: 190 °C
- pH(50 g/l H₂O, 20 °C) 3,8 - 4,4

Toxicological data

- LD 50 (oral, rat): 2500 mg/kg
- WGK: 1
- Poison class CH (Swiss): 4