



Ammonium dihydrogen phosphate, EssentQ®

Identification $(\text{NH}_4)\text{H}_2\text{PO}_4$

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. 99 %	arsenic (As).....	max. 1 ppm
pH (5 %, H ₂ O).....	4,0 - 4,5	copper (Cu).....	max. 0,001 %
insoluble in water.....	max. 0,02 %	heavy metals (as Pb).....	max. 0,005 %
chlorides (Cl).....	max. 0,001 %	iron (Fe).....	max. 0,001 %
nitrates (NO ₃).....	max. 0,005 %	nickel (Ni).....	max. 0,001 %
sulfates (SO ₄).....	max. 0,01 %	lead (Pb).....	max. 0,001 %

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

Transport/storage

- 10°C - 30°C