

**Ammonium heptamolybdate tetrahydrate, for analysis, ExpertQ®,
ACS, ISO, Reag. Ph Eur**
Identification

(NH₄)₆Mo₇O₂₄·4H₂O
M = 1235,86 g/mol
CAS [12054-85-2]
EC number: 234-722-4
Taric code: 2841 70 00

Synonyms

Ammonium molybdate, Hexammonium heptamolybdate 4-hydrate

Applications

photography, in porcelain industry, analytical chemistry.

Specifications

assay [(NH ₄) ₆ Mo ₇ O ₂₄ ·4H ₂ O].....min. 99 %	phosphates (as PO ₄).....max. 5 ppm
assay (as MoO ₃).....81,0 - 83,0 %	sulfates (SO ₄).....max. 0,02 %
insoluble matter.....max. 0,005 %	heavy metals.....max. 0,001 %
arsenates, phosphates, and silicates (as SiO ₂)max. 0,001 %	lead (Pb).....max. 0,001 %
chlorides (Cl).....max. 0,002 %	magnesium (Mg).....max. 0,005 %
nitrites (NO ₂).....passes test	potassium (K).....max. 0,01 %
	sodium (Na).....max. 0,01 %

Physical data

- Appearance: crystals, white
- Spec. Density: 2,5 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): 400 g/l
- Melting point: 90 °C (release of crystalline water)
- pH(50 g/l H₂O, 20°C) ~ 5,3