

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

$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$   
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 $[(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}]$ .....min. 99 %	phosphates (as $\text{PO}_4$ )..... max. 5 ppm
assay (as $\text{MoO}_3$ ).....81,0 - 83,0 %	sulfates ( $\text{SO}_4$ ).....max. 0,02 %
insoluble matter.....max. 0,005 %	heavy metals.....max. 0,001 %
arsenates, phosphates, and silicates (as $\text{SiO}_2$ )max. 0,001 %	lead (Pb)..... max. 0,001 %
chlorides (Cl)..... max. 0,002 %	magnesium (Mg).....max. 0,005 %
nitrites ( $\text{NO}_2$ )..... passes test	potassium (K).....max. 0,01 %
	sodium (Na)..... max. 0,01 %

**Physical data**

- Appearance: crystals, white
- Spec. Density: 2,5 g/cm<sup>3</sup>
- Bulk density: ~ 800 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 400 g/l
- Melting point: 90 °C (release of crystalline water)
- pH(50 g/l H<sub>2</sub>O, 20°C) ~ 5,3