



## Specification

### Ammonium Molybdate Tetrahydrate ACS

**Catalog Number:** AM1012  
**CAS Number:** 12054-85-2  
**Synonym(s):** Molybdic acid, hexammonium salt; Ammonium Heptamolybdate Tetrahydrate; Ammonium Molybdate (II); Ammonium paramolybdate.  
**Molecular Formula:**  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$   
**Molecular Weight:** 1235.86

| Test  | Specification  |
|---|--|
| Description:  | White to colorless to slightly greenish or yellow crystalline powder or crystals |
| Assay (as MoO <sub>3</sub> ):                             | 81.0-83.0%   |
| Insoluble Matter:   | < 0.005%   |
| Chloride (Cl):  | < 0.002%   |
| Nitrate (NO <sub>3</sub> ):                               | < 0.003%   |
| Phosphate (PO <sub>4</sub> ):                             | < 5 ppm  |
| Sulfate (SO <sub>4</sub> ):                               | < 0.02%  |
| Heavy metals (as Pb):                                     | < 0.001%   |
| Magnesium (Mg):   | < 0.005%   |
| Potassium (K):  | < 0.01%  |
| Sodium (Na):  | < 0.01%  |
| Arsenate, phosphate, and Silicate (as SiO <sub>2</sub> ): | < 0.001%   |

Approved:

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