

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
Ammonium molybdate tetrahydrate - ACS reagent, 81.0-83.0% MoO<sub>3</sub> basis

|                 |  |   |
|-----------------|--|---|
| Product Number: | A7302  | (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> • 4H <sub>2</sub> O |
| CAS Number:     | 12054-85-2   |   |
| MDL:            | MFCD00167059   |   |
| Formula:        | H <sub>24</sub> Mo <sub>7</sub> N <sub>6</sub> O <sub>24</sub> • 4H <sub>2</sub> O |   |
| Formula Weight: | 1,235.86 g/mol   |   |

| TEST | Specification |
|------|---------------|
|------|---------------|

|   |               |
|---|---------------|
| Assay   | 81.0 - 83.0 % |
| Magnesium (Mg)  | ≤ 0.005 %     |
| Sodium (Na)   | ≤ 0.01 %      |
| Potassium (K)   | ≤ 0.01 %      |
| Insoluble matter  | ≤ 0.005 %     |
| Chloride Content  | ≤ 0.002 %     |
| Nitrate   | Pass          |
| < /= 0.003%   |               |
| Arsenate, Phosphate, Silicate   | Pass          |
| < /= 0.001%   |               |
| Phosphate (PO <sub>4</sub> )  | ≤ 5 ppm       |
| Sulfate (SO <sub>4</sub> )  | ≤ 0.02 %      |
| Heavy Metals  | < = 0.001%    |
| by ICP-OES  |               |
| Note  | -----         |
| ACS tests   |               |
| Note  | -----         |
| May contain darkened Ammonium Molybdate crystals that are soluble in water. |               |
| Recommended Retest Period   | -----         |
| 4 years   |               |

Specification: PRD.11.ZQ5.10000033260

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.