



## Specification

### Ammonium Sulfate Enzyme Grade

**Catalog Number:** AS1005  
**CAS Number:** 7783-20-2  
**Synonym(s):** Mascagnite  
**Molecular Formula:**  $(\text{NH}_4)_2\text{SO}_4$   
**Molecular Weight:** 132.14  
**Storage:** 15°C – 30°C  
**Retest Period:** Five years from the date of manufacture

| Test  | Specification                |
|---|------------------------------|
| Appearance  | Fine white crystals          |
| Assay   | ≥ 99.0%                      |
| Identification<br>A Reaction for Ammonium<br>B Reaction for Sulfate                   | To pass test<br>To pass test |
| Solubility (1g/1.5mL H <sub>2</sub> O)  | Clear & colorless            |
| pH (5%)   | 5.0 – 6.0                    |
| Absorbance (Sat'd Solution)<br>260nm<br>280nm   | ≤ 0.1AU<br>≤ 0.1AU           |
| Insoluble Matter  | ≤ 0.005%                     |
| Residue After Ignition  | ≤ 0.005%                     |
| Chloride  | ≤ 5ppm                       |
| Nitrate   | ≤ 0.001%                     |
| Phosphate   | ≤ 5ppm                       |
| Calcium   | ≤ 0.5ppm                     |
| Magnesium   | ≤ 0.1ppm                     |
| Heavy Metals  | ≤ 0.5ppm                     |
| Iron  | ≤ 0.5ppm                     |
| Zinc  | ≤ 0.5ppm                     |
| Residual Solvents: Water was the only solvent used during manufacture of the product. |                              |

Approved:

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