

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Ammonium formate,for LC-MS, 99.0%

ITEM NUMBER: A100186
 BRAND: Aladdin
 CAS NUMBER: 540-69-2
 MDL NUMBER: MFCD00013103
 FORMULA: CH₅NO₂
 MOLECULAR WEIGHT: 63.06

| TEST | SPECIFICATION | | TARGET VALUE |
|-------------------------------|-----------------------|-----------|--------------|
| | MIN. | MAX. | |
| Aluminum(Al) | 0 ppm | 1 ppm | 1 ppm |
| Appearance | White crystals | | |
| Arsenic(As) | 0 ppm | 0.1 ppm | 0.1 ppm |
| Barium(Ba) | 0 ppm | 1 ppm | 1 ppm |
| Bismuth(Bi) | 0 ppm | 1 ppm | 1 ppm |
| Cadmium(Cd) | 0 ppm | 1 ppm | 1 ppm |
| Calcium(Ca) | 0 μg/mg / | 5 μg/mg / | 5 μg/mg / |
| Chloride(Cl) | 0 ppm | 50 ppm | 50 ppm |
| Chrome(Cr) | 0 ppm | 1 ppm | 1 ppm |
| Cobalt(Co) | 0 ppm | 1 ppm | 1 ppm |
| Copper(Cu) | 0 ppm | 1 ppm | 1 ppm |
| Ignition residue (as sulfate) | 0 % | 0.1 % | 0.1 % |
| Infrared spectrum | Conforms to Structure | | |
| insoluble matter | passes filter test | | |
| Iron(Fe) | 0 ppm | 1 ppm | 1 ppm |
| Lead(Pb) | 0 ppm | 1 ppm | 1 ppm |
| Lithium(Li) | 0 ppm | 1 ppm | 1 ppm |
| Magnesium(Mg) | 0 ppm | 1 ppm | 1 ppm |

| | | | |
|--|----------|---------|---------|
| Manganese(Mn) | 0 ppm | 1 ppm | 1 ppm |
| Melting point | 119 ° C | 121 ° C | 121 ° C |
| molybdenum(Mo) | 0 ppm | 1 ppm | 1 ppm |
| Nickel(Ni) | 0 ppm | 1 ppm | 1 ppm |
| pH | 5.5 | 7.5 | 7.5 |
| Potassium(K) | 0 ppm | 5 ppm | 5 ppm |
| Purity | 99 % | 100 % | 100 % |
| Purity(Based on Trace Metals Impurities) | 99.999 % | 100 % | 100 % |
| Sodium(Na) | 0 ppm | 5 ppm | 5 ppm |
| Strontium(Sr) | 0 ppm | 1 ppm | 1 ppm |
| sulfate (SO42-) | 0 ppm | 50 ppm | 50 ppm |
| total metallic impurities | 0 ppm | 20 ppm | 20 ppm |
| Water by Karl Fischer | 0 % | 2 % | 2 % |
| Zinc(Zn) | 0 ppm | 1 ppm | 1 ppm |