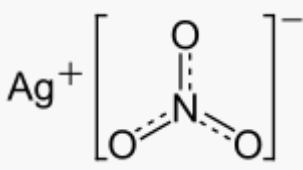


SILVER NITRATE

I. Specifications & Characteristics:-

| | |
|-----------------------|---|
| 1. Chemical Structure |  |
| 2. IUPAC name | Silver(I) Nitrate, Silver Nitrate |
| 3. CAS Number | 7761-88-8 |
| 4. Chemical formula | AgNO ₃ |
| 5. Molar Mass | 169.87 g·mol ⁻¹ |
| 6. Silver Content | 63.5% |
| 7. Appearance | White solid |
| 8. Odour | Odourless |
| 9. Form | Crystals / Grains |



II. Typical Analysis:-

| Type of Test | AR Grade | | LR Grade | |
|----------------------------|----------------|----------|----------------|----------|
| | Specifications | Observed | Specifications | Observed |
| Assay (%) | 99.90 | 99.95 | 99.50 | 99.80 |
| Alcohol insoluble matter | To pass test | Pass | To pass test | Pass |
| Water insoluble in water | 0.003(wt.%) | nil | 0.003(wt.%) | nil |
| Chloride (Cl) | 0.0005(wt.%) | 0.00037 | 0.0015(wt.%) | 0.0008 |
| Sulphate(SO ₄) | 0.0025(wt.%) | 0.0015 | 0.025(wt.%) | Nil |
| Alkali & other metals | 0.05(wt.%) | 0.0010 | 0.05(wt.%) | 0.0010 |
| Bismuth(Bi)+Lead (Pb) | 0.001(wt.%) | 0.000533 | 0.001(wt.%) | 0.000027 |
| Copper (Cu) | 0.0002(wt.%) | nil | 0.0002(wt.%) | 0.4 ppm |
| Iron (Fe) | 0.0003(wt.%) | nil | 0.001(wt.%) | Nil |
| Moisture | NA | 0.06% | 0.2% | 0.09% |

III. Grade / Denominations / Pack Size:-

| Grade | Purity | Denomination/Pack Size |
|-----------------------|-----------|--|
| Commercial Grade | > 98.00 % | Multiples of 5000 gms or 10000 gms |
| Laboratory Grade (LR) | > 99.00 % | 500 gms, 1000 gms, 5000 gms, 10000 gms |
| Analytical Grade (AR) | > 99.90 % | 500 gms, 1000 gms, 5000 gms, 10000 gms |

IV. Packaging: -

Black Pouches



Bottles



V. Applications Industries: -

- Pharmaceutical as catalyst.
- Fine Chemicals & Performance Materials
- Glass Manufacturing for Mirror
- Electroplating on the base metals like Nickel
- In Inks indelible for Voter Ink
- In Defence for Explosives

MODISON

THE SILVER PEOPLE

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