

Silver Nitrate

I. Specifications & Characteristics:-

1. Chemical Structure	$\text{Ag}^+ \left[\begin{array}{c} \text{O} \\ \parallel \\ \text{N} \\ \diagup \quad \diagdown \\ \text{O} \quad \text{O} \end{array} \right]^-$
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
Commercial Grade	> 98.00 %
Laboratory Grade (LR)	> 99.00 %
Analytical Grade (AR)	> 99.90 %

IV. 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

V. Packaging: - 5 Kgs Plastic Container with black Bag & Seal

MODISON

THE SILVER PEOPLE

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