

SPECIFICATION

Product Name: Sodium Acetate (Trihydrate) USP Grade
Chemical Formula: C ₂ H ₃ NaO ₂
CAS Number: 6131-90-4
Molecular Weight: 136.08 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification			
A) Reaction of sodium	-	Complies	A) Meets the requirements.
B) Reaction of acetate	-	Complies	B) Meets the requirements.
pH of 3% w/v Solution	%	8.24	7.50 – 9.2
Insoluble matter	%	0.01%	Max. 0.05%
Calcium and Magnesium	-	Complies	No turbidity is produced within 5 Min.
Potassium	-	Complies	No precipitate should be formed.
Sulfate	PPM	NMT 50 PPM	Max. 50 PPM
Chloride	PPM	NMT 350 PPM	Max. 350 PPM
Loss on drying (At 120°C)	%	39.50%	38.0% - 41.0%
Assay (On dry basis)	%	99.51%	99.0% to 101% of C ₂ H ₃ NaO ₂

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Insoluble in ether.
Insoluble in chloroform. Soluble in methanol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, humidity, heat, and contamination.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, laboratory, and industrial applications. It functions primarily as a buffering agent, pH regulator, electrolyte source, and stabilizer.
- Dosage: Depends on Desired pH, Buffer capacity, Acetate concentration, Product formulation, Regulatory requirements, Intended application.

Packaging

- Standard Packing: 50 Kgs woven pp bag with inner liner and 100 Grams or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.