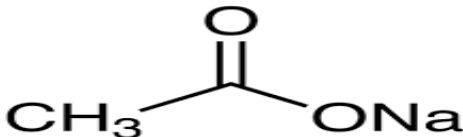




Technical Data Sheet - Sodium Acetate

1	Chemical Name	Sodium Acetate Anhydrous
2	CAS No	127-09-3
3	Synonym (s)	Anhydrous sodium acetate
4	Chemical Formula	(CH ₃ COONa)
5	Chemical Structure	
6	Molecular Weight	82.0343gm/mol
7	Description	The sodium salt of acetic acid, a colorless, deliquescent, and hygroscopic salt that exists as a white, coarse solid with a slight acetic acid odor
8	Solubility	Soluble in water
9	Storage and Handling	Store it in a dry, cool, and well-ventilated area, keeping containers tightly closed and away from incompatible materials like oxidizing agents and acids.
10	Uses	General Applications: <ul style="list-style-type: none">• pH Buffering: Sodium acetate acts as a buffer, helping to maintain a stable pH in various solutions and systems.• Food Preservation: It's used as a shelf-life extending



		<p>agent and pH-control agent in food production, preventing bacterial growth.</p> <ul style="list-style-type: none">● Heating Pads and Hand Warmers: Sodium acetate is a key component in the reusable heating pads and hand warmers, where it's used in a supersaturated solution that releases heat when crystallized.● Laboratory Reagent: It's a common reagent in various laboratory processes, including DNA isolation, protein purification, and other experiments where pH control is crucial. <p>Industrial Applications:</p> <ul style="list-style-type: none">● Textile Industry: Used in dyeing processes, as a mordant to improve dye fixation, and to neutralize sulfuric acid waste streams.● Concrete: Used as a sealant to reduce water damage to concrete structures.● Surface Treatment: Can be used for cleaning metal surfaces and removing rust or scale. <p>Medical Applications:</p> <ul style="list-style-type: none">● Electrolyte Replenisher: Administered intravenously to correct sodium levels in patients with hyponatremia (low sodium levels).● Metabolic Acidosis: Used in
--	--	---



RASHDEEP CHEMICALS

some cases to help correct metabolic acidosis.

Other Applications:

- **Cell Culture Media:** Used in the preparation of cell culture media.
- **Plant Nutrition:** Used as a source of nutrients for plants.
- **Biotechnology:** Used as a carbon source for culturing bacteria and increasing yields of DNA isolation by ethanol precipitation.
- **Chemical Synthesis:** Used as a base in several organic reactions.