



**Specification for Sodium Acetate, Trihydrate, USP, EP, JP,
FCC, bioCERTIFIED (TM) (S9000)**

Item Number	S9000
Item	Sodium Acetate, Trihydrate, USP, EP, JP, FCC, bioCERTIFIED (TM)
CAS Number	6131-90-4
Molecular Formula	NaC ₂ H ₃ O ₂ •3H ₂ O
Molecular Weight	136.08
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (C ₂ H ₃ NaO ₂ ; DRIED BASIS, USP, EP, FCC)	99.0	101.0 %
ASSAY (C ₂ H ₃ NaO ₂ ; DRIED BASIS, JP)	99.5	101.0%
Loss on Drying, EP	39.0	40.5 %
Loss on Drying, FCC	36.0	41.0 %
Loss on Drying, JP	39.0	40.5 %
Loss on Drying, USP	38.0	41.0 %
pH of a 3% Solution @ 25°C, USP	7.5	9.2
pH of a 5% Solution @ 20°C, EP	7.5	9.0
Alkalinity as (Na ₂ CO ₃): FCC		0.05 %
Clarity and Color of Solution, JP, EP		Clear, colorless
Lead, FCC		2 mg/kg
Arsenic, JP		2 ppm
Heavy Metals, JP		10 ppm
Potassium Compounds, FCC	no turbidity develops within 5min.	
Potassium, USP	no precipitate is formed.	
Reducing Substances, EP	the pink color persist for at least 1 hour.	
Potassium Permanganate Reducing Substances, JP	the red color of the solution does not disappear	
Insoluble Matter, USP		0.05 %
Chloride, EP		200 ppm
Chloride, USP		350 ppm
Chloride, JP		0.011 %

Test	Specification	
	Min	Max
Acidity or Alkalinity, JP	the red color disappears	
Sulfate, JP		0.017 %
Sulfates, EP		200 ppm
Sulfate, USP		50 ppm
Calcium and Magnesium, USP	no turbidity is produced within 5 min.	
Calcium and Magnesium, JP		0.5 mL
Calcium and Magnesium, EP		50 ppm
ELEMENTAL IMPURITIES	AS REPORTED	
IRON (EP)		10 ppm
MICROBIAL LIMITS:		
TAMC		1000 CFU/g
TYMC		100 CFU/g
BACTERIAL ENDOTOXINS		- 10 EU/g
IDENTIFICATION A (USP- A)	POSITIVE FOR SODIUM	
IDENTIFICATION B (USP- B)	POSITIVE FOR ACETATE	
IDENTIFICATION C (EP A)	POSITIVE FOR ACETATE	
IDENTIFICATION D (EP B)	POSITIVE FOR SODIUM	
IDENTIFICATION E (EP C)	39.0	40.5 %
IDENTIFICATION F (JP)	POSITIVE FOR ACETATE AND SODIUM	
IDENTIFICATION G (FCC A)	POSITIVE FOR ACETATE	
IDENTIFICATION H (FCC B)	POSITIVE FOR SODIUM	
EXPIRATION DATE		
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
RESIDUAL SOLVENTS		AS REPORTED

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