

Item Number	SO125
Item	Sodium Bicarbonate, Powder, USP, EP, BP, JP
CAS Number	144-55-8
Molecular Formula	NaHCO ₃
Molecular Weight	84.01
MDL Number	
Synonyms	Baking Soda ; Sodium Hydrogen Carbonate ; Carbonic Acid Monosodium Salt

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (DRIED BASIS) (USP)	99.0	100.5 %
ASSAY (EP/BP)	99.0	101.0 %
ASSAY (JP)	99.0 %	
pH (JP)	7.9 – 8.4	
LOSS ON DRYING (USP)		0.25 %
INSOLUBLE SUBSTANCES (USP)	SOLUTION IS COMPLETE AND CLEAR	
NORMAL CARBONATE (USP)	SOLUTION DOES NOT ASSUME MORE THAN A FAINT PINK COLOR IMMEDIATELY	
CARBONATES (EP/BP)		8.6
CARBONATE (JP)	NO RED COLOR DEVELOPS	
LIMIT OF AMMONIA (NH ₃) (USP)		20 ppm
AMMONIUM (NH ₄) (EP/BP)		20 ppm
AMMONIUM (NH ₃) (JP)	DOES NOT CHANGE LITMUS RED TO BLUE	
ARSENIC (As) (USP/EP/BP/JP)		2 ppm
CHLORIDE (Cl) (USP/EP/BP)		0.015 %
CHLORIDE (Cl) (JP)		0.040 %
SULFATES (EP/BP)		150 ppm
HEAVY METALS (JP)		5 ppm
ELEMENTAL IMPURITIES:		
CADMIUM (Cd)	AS REPORTED	
LEAD (Pb)	AS REPORTED	

Test	Specification	
	Min	Max
MERCURY (Hg)	AS REPORTED	
LIMIT OF SULFUR COMPOUNDS (USP)		0.015 %
CALCIUM (Ca) (EP/BP)		100 ppm
IRON (Fe) (EP/BP)		20 ppm
APPEARANCE OF SOLUTION (EP/BP/JP)	SOLUTION IS CLEAR AND COLORLESS	
IDENTIFICATION A (USP A)	POSITIVE FOR SODIUM	
IDENTIFICATION B (USP B)	POSITIVE FOR BICARBONATE	
IDENTIFICATION C (EP/BP A)	PALE PINK COLOR BECOMES RED	
IDENTIFICATION D (EP/BP B)	POSITIVE FOR CARBONATES AND BICARBONATES	
IDENTIFICATION E (EP/BP C)	POSITIVE FOR SODIUM	
IDENTIFICATION F (JP)	POSITIVE FOR SODIUM SALT AND BICARBONATE	
RETEST DATE		
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
RESIDUAL SOLVENTS	AS REPORTED	

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