



## Specification for Sodium Thiosulfate, Pentahydrate, Crystal, USP, EP, BP, JP (SO210)

Item Number	SO210
Item	Sodium Thiosulfate, Pentahydrate, Crystal, USP, EP, BP, JP
CAS Number	10102-17-7
Molecular Formula	$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
Molecular Weight	248.19
MDL Number	
Synonyms	Disodium Thiosulfate ; Sodium Hyposulfite

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY ( $\text{Na}_2\text{S}_2\text{O}_3$ ; ANHYDROUS BASIS) (USP)	99.0	100.5 %
ASSAY ( $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ )(EP/BP)	99.0	101.0 %
ASSAY ( $\text{Na}_2\text{S}_2\text{O}_3$ ; Dried Basis) (JP)	99.0	101.0 %
WATER DETERMINATION (USP)	32.0	37.0 %
LOSS ON DRYING (JP)	32.0	37.0 %
pH OF A 10% SOLUTION (EP/BP)	6.0	8.4
pH OF A 10% SOLUTION (JP)	6.0	8.0
CALCIUM (USP)	NO TURBIDITY IS PRODUCED	
CALCIUM (JP)	NO TURBIDITY IS PRODUCED	
HEAVY METALS (JP)		20 ppm
SULFATE AND SULFITES (EP/BP)		0.2 %
SULFIDES (EP/BP)	THE SOLUTION DOES NOT BECOME VIOLET	
APPEARANCE OF SOLUTION (EP/BP)	THE SOLUTION IS CLEAR AND COLORLESS	
COLOR AND CLARITY (JP)	THE SOLUTION IS CLEAR AND COLORLESS	
ARSENIC (As) (JP)		5 ppm
ELEMENTAL IMPURITIES	AS REPORTED	
IDENTIFICATION A (USP A)	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION B (USP B)	POSITIVE FOR SODIUM	
IDENTIFICATION C (EP/BP A)	DECOLORIZES IODINATED POTASSIUM IODIDE SOLUTION R	

Test	Specification	
	Min	Max
IDENTIFICATION D (EP/BP B)	WHITE PRECIPITATE FORMS RAPIDLY BECOMES YELLOWISH THEN BLACK	
IDENTIFICATION E (EP/BP C)	YELLOW PRECIPITATE FORMS, EVOLVED GAS COLORS STARCH IODATE PAPER BLUE	
IDENTIFICATION F (EP/BP D)	POSITIVE FOR SODIUM	
IDENTIFICATION G (JP 1)	POSITIVE FOR THIOSULFATE	
IDENTIFICATION H (JP 2)	POSITIVE FOR SODIUM	
CERTIFIED KOSHER		
CERTIFIED HALAL		
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS	AS REPORTED	

***Spectrum Chemical Mfg Corp***

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