



Specification for Magnesium Chloride, Hexahydrate, Crystal, USP, EP, BP, FCC, bioCERTIFIED (TM) (M9100)

Item Number	M9100
Item	Magnesium Chloride, Hexahydrate, Crystal, USP, EP, BP, FCC, bioCERTIFIED (TM)
CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.30
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (USP)	98.0	101.0 %
pH (USP)	4.5	7.0
ALUMINUM (USP)		1 ppm
INSOLUBLE MATTER (USP)		0.005 %
SULFATE (USP)		0.005 %
BARIUM (USP)	NO TURBIDITY IS PRODUCED WITHIN 2 H.	
LIMIT OF CALCIUM (USP)		0.01%
POTASSIUM (USP)	NO TURBIDITY IS PRODUCED WITHIN 5 min.	
ELEMENTAL IMPURITIES:		
COPPER (Cu)	AS REPORTED	
LITHIUM (Li)	AS REPORTED	
ASSAY (EP/BP)	98.0	101.0 %
BROMIDES (EP/BP)		500 ppm
SULFATES (EP/BP)		100 ppm
CALCIUM (EP/BP)		0.1 %
IRON (EP/BP)		10 ppm
APPEARANCE OF SOLUTION (EP/BP)	SOLUTION IS CLEAR AND COLORLESS	
ACIDITY OR ALKALINITY (EP/BP)		0.3 mL
WATER (EP/BP)	51.0	55.0 %
ALUMINUM (EP/BP)		1 ppm
POTASSIUM (EP/BP)		500 ppm

Test	Specification	
	Min	Max
ASSAY (FCC)	99.0	105.0 %
AMMONIUM Ion (FCC)		0.005 %
LEAD (FCC)		4 mg/kg
SULFATES (FCC)		0.003 %
MICROBIAL LIMITS:		
BACTERIAL ENDOTOXINS		10 EU/g
TOTAL AEROBIC MICROBIAL COUNT		1,000 CFU/g
TOTAL YEAST AND MOLD COUNT		100 CFU/g
IDENTIFICATION A (USP A)	POSITIVE FOR MAGNESIUM	
IDENTIFICATION B (USP B)	POSITIVE FOR CHLORIDE	
IDENTIFICATION C (EP/BP A)	51.0	55.0 %
IDENTIFICATION D (EP/BP B)	GIVES REACTION OF CHLORIDES	
IDENTIFICATION E (EP/BP C)	GIVES REACTION OF MAGNESIUM	
IDENTIFICATION F (FCC A)	POSITIVE FOR MAGNESIUM	
IDENTIFICATION G (FCC B)	POSITIVE FOR CHLORIDE	
EXPIRATION DATE		
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
RESIDUAL SOLVENTS	AS REPORTED	

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