

Item Number	M1167
Item	Morphine Sulfate (CII), USP
CAS Number	6211-15-0
Molecular Formula	(C <sub>17</sub> H <sub>19</sub> NO <sub>3</sub> ) <sub>2</sub> •H <sub>2</sub> SO <sub>4</sub> •5H <sub>2</sub> O
Molecular Weight	758.83
MDL Number	
Synonyms	7,8-Didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (ANHYDROUS BASIS)	98.0	102.0 %
OPTICAL ROTATION	-107° to -110°	
WATER DETERMINATION	10.4	13.4 %
CHLORIDE	NO PRECIPITATE OR TURBIDITY IS PRODUCED IMMEDIATELY	
ACIDITY		0.50 mL
RESIDUE ON IGNITION		0.1 %
LIMIT OF FOREIGN ALKALOIDS		1.5 %
ELEMENTAL IMPURITIES	AS REPORTED	
IDENTIFICATION (A) FTIR	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION (B)	RETENTION TIME CORRESPONDS TO STANDARD	
IDENTIFICATION (C)	POSITIVE FOR SULFATE	
EXPIRATION DATE		
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
RESIDUAL SOLVENTS	AS REPORTED	

***Spectrum Chemical Mfg Corp***

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