

Item Number	A1253
Item	Alanine, USP
CAS Number	56-41-7
Molecular Formula	C ₃ H ₇ NO ₂
Molecular Weight	89.09
MDL Number	
Synonyms	L-2-Aminopropanoic Acid

Test	Specification	
	Min	Max
ASSAY (DRIED BASIS)	98.5	101.5 %
SPECIFIC ROTATION	+13.7° to+15.1°	
pH (1 in 20 solution)	5.5	7.0
LOSS ON DRYING		0.2 %
RESIDUE ON IGNITION		0.15 %
CHLORIDE		0.05 %
SULFATE		0.03 %
IRON		30 ppm
ELEMENTAL IMPURITIES:		
CADMIUM (Cd)		AS REPORTED
LEAD (Pb)		AS REPORTED
ARSENIC (As)		AS REPORTED
MERCURY (Hg)		AS REPORTED
RELATED COMPOUNDS:		
MALEIC ACID		0.05 %
MALIC ACID		0.05 %
FUMARIC ACID		0.05 %
ANY UNSPECIFIED IMPURITY		0.05 %
TOTAL UNIDENTIFIED IMPURITIES		0.20 %
IDENTIFICATION	SPECTRUM MATCHES REFERENCE	
EXPIRATION DATE		
DATE OF MANUFACTURE		
APPEARANCE		
RESIDUAL SOLVENTS		AS REPORTED

Test	Specification	
	Min	Max
MONOGRAPH EDITION		

Spectrum Chemical Mfg Corp

<i>Corporate Headquarters:</i>	<i>West Coast Facility:</i>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000