

Certificate of Analysis

Product Name: L-ALANINE
≥ 98 % TLC
Product Number: A7627
Batch Number: BCBV9832
Brand: Sigma
CAS Number: 56-41-7
Formula: C₃H₇NO₂
Formula Weight: 89.09
Quality Release Date: 11 DEC 2017
Recommended Retest Date: SEP 2023

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (TLC AREA %)	≥ 98 %	100 %
SPECIFIC ROTATION	14.4 ± 0.7 DEGREES	14.9 DEGREES
CONCENTRATION	C=10 IN 6 M HYDROCHLORIC ACID, 25C	C=10 IN 6 N HYDROCHLORIC ACID AT 25 DEG CENTIGRADE
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR	CLEAR
SOLUBILITY (METHOD)	50MG/ML IN WATER	50MG/ML IN WATER
CARBON CONTENT	40.0 - 41.0	40.3 %
NITROGEN CONTENT	15.2 - 16.2	15.6 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
MISCELLANEOUS TESTS	HEAVY METALS (AS LEAD) ≤20 PPM	HEAVY METALS (AS LEAD) ≤20 PPM



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Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.