

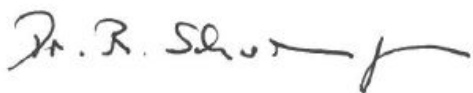
Certificate of Analysis

Product Name: SULFANILIC ACID
puriss. p.a., >= 99.0 % T
Product Number: 86090
Batch Number: BCCB2397
Brand: Sigma-Aldrich
CAS Number: 121-57-3
Formula: 4-(H₂N)C₆H₄SO₃H
Formula Weight: 173.19
Quality Release Date: 02 MAY 2019
Recommended Retest Date: SEP 2023

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO OFF WHITE	OFF WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
TITRATION (T) NAOH 0.1M	≥ 99.0 %	99.8 %
ASSAY (HPLC WEIGHT %)	≥ 99.0 %	100.0 %
HPLC MINOR COMPONENT (WEIGHT %)	≤ 1.0 % META-AMINO BENZENESULFONIC ACID	0.0 %
HPLC MINOR COMPONENT (WEIGHT %)	≤ 1.0 % ORTHO-AMINO BENZENESULFONIC ACID	0.0 %
SOLUBILITY (COLOR)	COLORLESS TO ALMOST COLORLESS	ALMOST COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR	CLEAR
SOLUBILITY (METHOD)	1G IN 10ML SODIUMCARBONATE 5%	1G IN 10ML SODIUMCARBONATE 5%
SULFATED ASH	≤ 0.01 %	0.008 %
CARBON CONTENT	41.61 % (THEORY)	41.31 %
HYDROGEN CONTENT	4.07 % (THEORY)	4.14 %
NITROGEN CONTENT	8.09 % (THEORY)	7.79 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
CALCIUM (ICP)	≤ 10 MG/KG	< 10 MG/KG
CADMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COBALT (ICP)	≤ 5 MG/KG	< 5 MG/KG
CHROMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COPPER (ICP)	≤ 5 MG/KG	< 5 MG/KG
IRON (ICP)	≤ 5 MG/KG	< 5 MG/KG

Certificate of Analysis

POTASSIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
MAGNESIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MANGANESE (ICP)	≤ 5 MG/KG	< 5 MG/KG
SODIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
NICKEL (ICP)	≤ 5 MG/KG	< 5 MG/KG
LEAD (ICP)	≤ 5 MG/KG	< 5 MG/KG
ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG
CHLORIDE (CL)	≤ 20 MG/KG	< 20 MG/KG
NITRITE (NO ₂)	≤ 0.5 MG/KG	< 0.5 MG/KG
SULFATE (SO ₄)	≤ 50 MG/KG	50 MG/KG



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland

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.