



Version	00
Molecular weight	149.21
Quality Test / Release Date	09/03/2019
Molecular Formula	C5 H11 N O2 S
CAS No	59-51-8
Linear Formula	CH3SCH2CH2CH(NH2)CO2H
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	12565	Quality Test / Release Date	09/03/2019
Lot Number	A0411398		
Description	DL-Methionine, 99+%		
Country of Origin	CHINA		
Declaration of Origin	synthetic		

BSE/TSE comment	
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Chemical Comment	
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Result name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder or crystals	Crystalline powder
Infrared spectrum		Conforms	Conforms
Titration with HClO4		99.0 to 101.0 % (on dried substance)	99.5 % (on dried substance)
Loss on drying		≤0.5 % (1 g, 105°C)	0.18 % (1 g, 105°C)
Heavy metals (as Pb)		≤10 ppm	≤10 ppm
Sulfated ash		≤0.1 %	0.05 %
pH		5.4 to 6.1 (2 % w/v in water)	5.74 (. % w/v in water)
UV transmittance		≥95 % (c=10, 2 N HCl, 430 nm) 1 cm cell	95 % (c=10, 2 N HCl, 430 nm) 1 cm cell
Chloride (Cl)		≤200 ppm	≤200 ppm
Sulfate (SO4)		≤200 ppm	≤200 ppm
Ammonium (NH4)		≤1000 ppm	9 ppm
Other amino acids		≤0.2 % (TLC)	≤0.2 % (TLC)



A handwritten signature in black ink, appearing to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 09-04-2019

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