

# Certificate of Analysis

**Product Name :** Zinc sulfate heptahydrate ACS reagent, 99%  
**Product Number :** 221376-500G  
**Batch Number :** 0000472351  
Source Batch : MKCX8334  
CAS Number : 7446-20-0  
MDL Number : MFCD00149894  
Molecular Formula :  $O_4SZn \cdot 7H_2O$   
Formula Weight : 287.56 g/mol  
Recommended Retest Date : Apr 2028  
Quality Release Date : 03 JUN 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystals or Crystals with Chunks	Crystals
Complexometric EDTA	99.0 - 103.0 %	99.9 %
Complexometric EDTA		
X-Ray Diffraction	Conforms to Structure	Conforms
Insoluble Matter	$\leq 0.01$ %	0.01 %
c = 10%, Water		
Calcium (Ca)	$\leq 0.005$ %	$< 0.001$ %
Chloride (Cl)	$\leq 5$ ppm	$< 5$ ppm
Iron (Fe)	$\leq 0.001$ %	$< 0.001$ %
Potassium (K)	$\leq 0.01$ %	$< 0.01$ %
Magnesium (Mg)	$\leq 0.005$ %	0.004 %
Sodium (Na)	$\leq 0.05$ %	$< 0.01$ %
Ammonia (NH <sub>4</sub> )	$\leq 0.001$ %	$< 0.001$ %
Nitrate (NO <sub>3</sub> )	$\leq 0.002$ %	$< 0.001$ %
Lead (Pb)	$\leq 0.003$ %	$< 0.001$ %
Manganese (Mn)	$\leq 3$ ppm	2 ppm
Manganese		
pH	4.4 - 6.0	4.6
c = 5%; Water at 25°C		
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		

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](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.

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**Product** 221376-500G  
**Batch** 0000472351



Larry Coers, Director

Quality Control

Milwaukee, WI

US

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