

# Certificate of Analysis

Product Name:

Potassium iodide - ACS reagent, ≥99.0%

**Product Number:** 221945  
**Batch Number:** MKCX5262  
**Brand:** SIGALD  
**CAS Number:** 7681-11-0  
**MDL Number:** MFCD00011405  
**Formula:** IK  
**Formula Weight:** 166.00 g/mol  
**Quality Release Date:** 07 APR 2025  
**Recommended Retest Date:** APR 2029

KI

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystals	Crystals
X-Ray Diffraction	Conforms to Structure	Conforms
Titration by Potassium Iodate	≥ 99.0 %	99.7 %
Loss on Drying	≤ 0.2 %	< 0.1 %
Insoluble Matter	≤ 0.005 %	0.004 %
Barium	≤ 0.002 %	< 0.001 %
Miscellaneous Assay	≤ 0.01 %	< 0.01 %
Chloride and Bromide		
Iron (Fe)	≤ 3 ppm	< 1 ppm
Heavy Metals	≤ 5 ppm	2 ppm
As Lead		
Miscellaneous Assay	≤ 3 ppm	< 3 ppm
Iodate		
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
pH	6.0 - 9.2	7.3
At 25°C; c = 5%; Water		
Phosphate (PO <sub>4</sub> )	≤ 0.001 %	< 0.001 %
Sulfate (SO <sub>4</sub> )	≤ 0.005 %	< 0.005 %
Meets ACS Requirements	Current ACS Specification	Conforms

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. 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.



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**Product Number:** 221945  
**Batch Number:** MKCX5262

Test	Specification	Result
Recommended Retest Period 4 Years	-----	-----



Larry Coers, Director  
Quality Control  
Milwaukee, WI US

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