

# Certificate of Analysis

Product Name:

Cobalt(II) chloride hexahydrate - ACS reagent, 98%

**Product Number:** 255599  
**Batch Number:** MKCR6427  
**Brand:** SIGALD  
**CAS Number:** 7791-13-1  
**MDL Number:** MFCD00149652  
**Formula:**  $\text{Cl}_2\text{Co} \cdot 6\text{H}_2\text{O}$   
**Formula Weight:** 237.93 g/mol  
**Quality Release Date:** 26 JUL 2022  
**Recommended Retest Date:** APR 2025



Test	Specification	Result
Appearance (Color)	Red to Very Dark Red and Purple to Very Dark Purple	Very Dark Red
Appearance (Form)	Powder or Crystals or Chunk(s) or Powder with Chunk(s) or Crystals with Chunk(s)	Crystals
X-Ray Diffraction	Conforms to Structure	Conforms
Complexometric EDTA	98.0 - 102.0 %	99.6 %
Insoluble Matter	≤ 0.01 %	0.01 %
Concentration: 10% in Water		
Calcium (Ca)	≤ 0.005 %	< 0.001 %
Copper (Cu)	≤ 0.002 %	< 0.001 %
Iron (Fe)	≤ 0.005 %	< 0.001 %
Potassium (K)	≤ 0.01 %	< 0.01 %
Magnesium (Mg)	≤ 0.005 %	< 0.001 %
Sodium (Na)	≤ 0.05 %	< 0.01 %
Nickel (Ni)	≤ 0.1 %	< 0.1 %
Nitrate (NO <sub>3</sub> )	≤ 0.01 %	< 0.01 %
Sulfate (SO <sub>4</sub> )	≤ 0.01 %	< 0.01 %
Zinc (Zn)	≤ 0.03 %	< 0.01 %
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. 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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Larry Coers, Director  
Quality Control  
Milwaukee, WI US

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