

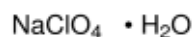
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## Product Specification

Product Name:  
Sodium perchlorate monohydrate – ACS reagent

Product Number: 310514  
CAS Number: 7791-07-3  
MDL: MFCD00149164  
Formula:  $\text{ClNaO}_4 \cdot \text{H}_2\text{O}$   
Formula Weight: 140.46 g/mol



TEST	Specification
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Appearance (Color)	White
Appearance (Form)	Powder or Crystal or Chunk(s)
X-Ray Diffraction	Conforms to Structure
Insoluble matter	$\leq 0.005 \%$
Chloride Content	$\leq 0.003 \%$
Iron (Fe)	$\leq 5 \text{ ppm}$
Potassium (K)	$\leq 0.05 \%$
Calcium (Ca)	$\leq 0.02 \%$
Heavy Metals	$\leq 5 \text{ ppm}$
(by ICP)	
pH	6.0 - 8.0
@ 25 Deg C (c = 5 %; Water)	
Sulfate	$\leq 0.002 \%$
Titration by $\text{AgNO}_3$	85.0 - 90.0 %
(% $\text{NaClO}_4 \cdot \text{H}_2\text{O}$ )	
Meets ACS Requirements	Current ACS Specification
Recommended Retest Period	-----
6 Years	

Specification: PRD.5.ZQ5.10000023807

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.

