

# Product News

## Perchlorate Products (Method 314.0)

Perchlorate has become an analyte of environmental interest since being detected in a number of drinking and groundwater supplies located in Midwestern states. New methods were evaluated for the detection of Perchlorate at low ppb levels. Eventually EPA method 314.0 was released as an approved method to achieve the required sensitivity.

Perchlorate is the inorganic chemical typically found in the oxidant Ammonium Perchlorate, which is used as a solid rocket propellant or in other industrial applications. As an inorganic chemical, Perchlorate has become a public health concern due to its ability to interfere with the thyroid gland's uptake of Iodine to produce thyroid hormones required for normal body metabolism.

Due to the wide spread detection of Perchlorate, analytical laboratories are seeking certification for this parameter by EPA method 314.0. Proficiency testing has taken place with approximately 150 laboratories either approved for the parameter or participating in a formal PT program to obtain certification for the parameter.

These standards are made with high purity starting materials, using 18 Megohm, ASTM type 1 Water, packaged in precleaned high quality HDPE bottles, and are filtered through 0.2  $\mu\text{m}$  filter to eliminate contaminants.

<b>Perchlorate Calibration Set</b>		
Includes Cat. No.	<a href="#"><u>M-314.0-SET</u></a>	3 x 100 mL
WC-PER-10X-1		
M-314.0-MCA-250X-1		
M-314.0-CMCS-1		
<b>Perchlorate Standard</b>		
Perchlorate in 1000 $\mu\text{g}/\text{mL}$ in Water	<a href="#"><u>WC-PER-10X-1</u></a>	100 mL
<b>Mixed Common Anion Stock</b>		
Chloride	<a href="#"><u>M-314.0-MCA-250X-1</u></a>	100 mL
Sulfate		
Carbonate		
<b>Conductivity Meter Calibration Standard</b>		
1410 $\mu\text{S}/\text{cm}$ @ 25 C in Water	<a href="#"><u>M-314.0-CMCS-1</u></a>	100 mL
<b>WS-PT Perchlorate (NELAC/CA Inorganic PT Sample)</b>		
Sample conc. after prep 10-50 $\mu\text{g}/\text{L}$	<a href="#"><u>IPE-PER-001-AV</u></a>	20 mL
Contains analyte listed below		
Perchlorate		