

Thermo Scientific

Dionex Retention Time Standards

Thermo Scientific™ Dionex™ Retention Time Standards for common anions and cations are specially designed for use with Thermo Scientific™ Dionex™ Chromeleon™ 7.2 Chromatography Data System software retention time standard (RTS) processing methods to help automate the sometimes tedious manual task of entering and reassigning component retention times and names.



In order to accomplish this reassignment, the standards are first assigned in the injection list and the default processing method is set. After injection, the Chromeleon CDS software interprets each component as a peak area ratio. The peak area ratio for a component is its peak area percentage relative to the largest peak in the chromatogram. These peak area ratios are then matched to the values within the RTS processing method and the appropriate component is assigned.

The Chromeleon CDS software then verifies that each retention time standard is valid using predefined criteria. For each subsequent injection in the sequence that uses the RTS processing method, Chromeleon CDS software searches for the most recent retention time standard using that method and uses its retention times to identify the components.

Increase Your Productivity

- Dynamic determination of expected retention times based on peak area ratios
- Easy and convenient IC standard preparation
- Reduce standards preparation time
- Reduce time-consuming standard validation
- Reduce time required to compensate for factors like variations in run conditions
- Easy access to default method templates that contain predefined component names and peak ratios using Chromeleon CDS software 7.2 SR3 or later.

Improve the Reliability of Your Analyses

- Reduce standard preparation errors
- Increase accuracy of quantifications
- Improve day-to-day reproducibility

The Quality You Expect from Thermo Fisher Scientific

- Uses only high-purity, reagent-grade chemicals and water (18 MΩ-cm), quality-control checked for ionic contamination
- All standards are National Institute of Standards and Technology (NIST)-traceable
- A Certificate of Analysis is provided with every standard

Unconditional Guarantee

Your satisfaction is guaranteed. All Thermo Scientific Dionex standards carry a 90-day warranty.

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Ordering Information

To order in the U.S., call (800) 346-6390 or contact the Thermo Scientific office nearest you. Outside the U.S., order through your local Thermo Fisher Scientific office or distributor. Refer to the following part numbers.

Standard		Volume	Part Number
Dionex Seven Anion Retention Time Standard		50 mL	088957
Contains the following analytes:			
Fluoride	2 mg/L		
Chloride	24 mg/L		
Nitrite	16 mg/L		
Bromide	36 mg/L		
Nitrate	36 mg/L		
Phosphate	26 mg/L		
Sulfate	40 mg/L		
Dionex Seven Anion Retention Time Standard Concentrate		50 mL	302511
Contains the following analytes:			
Fluoride	100 mg/L		
Chloride	1200 mg/L		
Nitrite	800 mg/L		
Bromide	1800 mg/L		
Nitrate	1800 mg/L		
Phosphate	1300 mg/L		
Sulfate	2000 mg/L		
Dionex Six Cation Retention Time Standard		50 mL	088964
Contains the following analytes:			
Lithium	2 mg/L		
Sodium	9 mg/L		
Ammonium	3 mg/L		
Potassium	21 mg/L		
Magnesium	9 mg/L		
Calcium	17 mg/L		
Dionex Six Cation Retention Time Standard, 100x Concentrate		50 mL	088969
Contains the following analytes:			
Lithium	200 mg/L		
Sodium	900 mg/L		
Ammonium	300 mg/L		
Potassium	2100 mg/L		
Magnesium	900 mg/L		
Calcium	1700 mg/L		

All Dionex IC standards are traceable to NIST Standard Reference Materials and are shipped with a Certificate of Analysis verifying the concentrations.

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