

Certificate of Analysis

Water, ACS Reagent Grade, ASTM Type II

Lot Number: 1308K23

Product Number: 9152

Date Packaged: AUG 15, 2023

Expiration Date: JAN 2025

Packaged in plastic. Not suitable for applications requiring extremely low levels of organics. This product is manufactured by a continuous process that has been validated to produce high purity Water meeting, as a minimum, the specifications below at the time of packaging. Although this water is not distilled, it has a chemical purity equal to or better than double distilled water. The analysis results are from the most recent scheduled monitoring.

Contains

H₂O CAS No. 7732-18-5 MW 18.02

Test	Specification	Result
Appearance	Colorless liquid	Passed
Chloride (Cl)	max 5 ppb	0.04 ppb
Conductivity at 25°C	max 1.0 µS/cm	0.1 µS/cm
Heavy Metals (as Pb)	max 0.01 ppm	< 0.01 ppm
Nitrate (NO ₃)	max 0.4 ppm	0.00002 ppm
Organic Carbon (TOC)	max 50 ppb	12 ppb
Oxidizable Substances (Permanganate Retention)	To Pass Test	Passed
Phosphate (PO ₄)	max 1.0 ppm	< 0.00002 ppm
Silicate (as SiO ₂)	max 3 ppb	< 1 ppb
Sodium (Na)	max 5 ppb	< 0.01 ppb
Sulfate (SO ₄)	max 1.0 ppm	< 0.00005 ppm

Specification	Reference
Reagent Water	ACS (N/A)
Reagent Water, Type II	ASTM (D 1193)

This water is specially purified by conventional water softening, prefiltration, activated carbon organic adsorption, reverse osmosis, mixed bed triple deionization, ultraviolet light irradiation, and 0.2 micron membrane filtration. Consult RICCA CHEMICAL COMPANY Technical Reference Document TRD02 (for lot numbers starting with 1) or TRD03 (for lot numbers starting with 2) for details of the water purification process.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
9152-16	500 mL natural poly	18 months
9152-32	1 L natural poly	18 months
9152-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Heidi J Green (08/15/2023)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.