



# Thermo Scientific Water

**Ideal for reconstituting chemistry or coagulation reagents, preparing analytical standards or rinsing delicate electrodes, our water should be used in place of deionized or distilled water to improve control in critical diagnostic procedures. Prepared at 18 megohm-cm specific resistance using reverse osmosis, mixed bed deionization, activated carbon filtration and final filtration to 0.2 micron, our water is essentially free from organic and inorganic particulate and soluble contaminants. Provides consistency from test to test and lot to lot.**

Each lot of our water is completely documented. A Certificate of Analysis is available for each case. All of our water is stable at room temperature for 12 months and contains no preservatives. For in vitro diagnostic use and laboratory use only. Not for infusion, injection or irrigation. DOT Description: Not regulated.

## Thermo Scientific NERL Reagent Grade Water

Our documented analyses of critical components/parameters meet or exceed CAP/CLSI specifications for Clinical Laboratory Reagent Water (CLRW) and USP/NF Purified Water.

- |             |                      |
|-------------|----------------------|
| Cat. 9800-1 | 4 x 1 gallon bottles |
| Cat. 9800-3 | 6 x 32 ounce bottles |
| Cat. 9800-5 | 5 gallon Cubitainer® |



## Thermo Scientific NERL High Purity Water

Our documented analyses of critical components/parameters meet CAP/CLSI specifications for Clinical Laboratory Reagent Water (CLRW) at the time of manufacture.

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|-----------|-------------------------|
| Cat. 9801 | 4 x 1 gallon Cubitainer |
| Cat. 9805 | 5 gallon Cubitainer     |

## Thermo Scientific NERL Safe & Sure Ultra Pure Reagent Grade Water

Be Safe & Sure with Ultra Pure Reagent Grade Water, our highest grade of ion-free water. Our 15 critical and completely documented analyses meet or exceed CAP/CLSI specifications for Clinical Laboratory Reagent Water (CLRW) and USP/NF Purified Water.

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|-----------|--------------------|
| Cat. 0015 | 6 x 1 pint bottles |
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# Specifications & Volatile Organics

## Reagent Grade Water

### Product Specification:

Our Reagent Grade Water is typically prepared at 18 megohm-cm specific resistance using reverse osmosis, mixed bed deionization, activated carbon filtration and final filtration to 0.2 micron. The specifications for 18 key constituents are:

Ammonia/USP Test .....	< 0.3 ppm
Bacteriological Purity ** .....	< 10 CFU/mL
Calcium/USP Test .....	Passes Test
Carbon Dioxide/USP Test .....	Passes Test
Chloride/USP Test .....	< 0.5 ppm
Coliform .....	< 1 per Liter
Conductivity*/USP Test .....	Passes Test
Copper .....	< 1 ppm
Heavy Metal/USP Test .....	< 0.01 ppm
pH .....	5.0 to 7.0
Iron .....	< 1 ppm
Organics† .....	Passes Test
Resistivity * .....	≥ 10 megohm-cm
Silicates .....	< 0.01 ppm
Sodium .....	< 0.1 ppm
Sulfate/USP Test .....	Passes Test
Total Organic Carbon* (TOC) .....	< 0.5 mg C/L
Volatile Organics .....	Passes Test

Over 45 additional trihalomethanes and volatile organics are assayed.

A list of these substances appear below.

## Volatile Organics

1,1,1,2-Tetrachloroethane  
1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,1-Dichloropropene  
1,2,3-Trichlorobenzene  
1,2,3-Trichloropropane  
1,2,4-Trichlorobenzene  
1,2,4-Trimethylbenzene  
1,2-Dibromomethane (EDB)  
1,2-Dibromo-3-chloropropane  
1,2-Dichlorobenzene  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,3,5-Trimethylbenzene  
1,3-Dichlorobenzene  
1,3-Dichloropropane  
1,4-Dichlorobenzene  
2,2-Dichloropropane

2-Chlorotoluene  
4-Chlorotoluene  
Benzene  
Bromobenzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Dibromochloromethane  
Dibromomethane  
Dichlorodifluoromethane  
Ethylbenzene  
Hexachlorobutadiene  
Isopropylbenzene  
Methyl tert-Butyl Ether (MTBE)

Methylene Chloride  
Naphthalene  
n-Butylbenzene  
n-Hexane  
n-Propylbenzene  
p-Isopropyltoluene  
sec-Butylbenzene  
Styrene  
tert-Butylbenzene  
Tetrachloroethane  
Toluene  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropylene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Chloride  
Xylenes

### Surrogates

4-Bromofluorobenzene  
1,2-Dichlorobenzene-d4

## High Purity Water

### Product Specification:

Our High Purity Water is typically prepared at 18 megohm-cm specific resistance using reverse osmosis, mixed bed deionization, activated carbon filtration and final filtration to 0.2 micron. The specifications for 6 key constituents are:

Bacteriological Purity ** .....	< 10 CFU/mL
Conductivity * .....	Passes Test
Organics (TOC) * .....	< 0.5 mg C/L
Particulate Matter .....	0.22µm, Filtered
Silicates .....	< 0.05 ppm
Resistivity * .....	≥ 10 megohm-cm

\* Meets stated values at the time of manufacture. Values will change over time due to the unstable nature of these components/parameters under atmospheric conditions.

\*\* This product is not intended for use as a sterile or potable product.

† Substance reduction by  $\text{KMnO}_4$