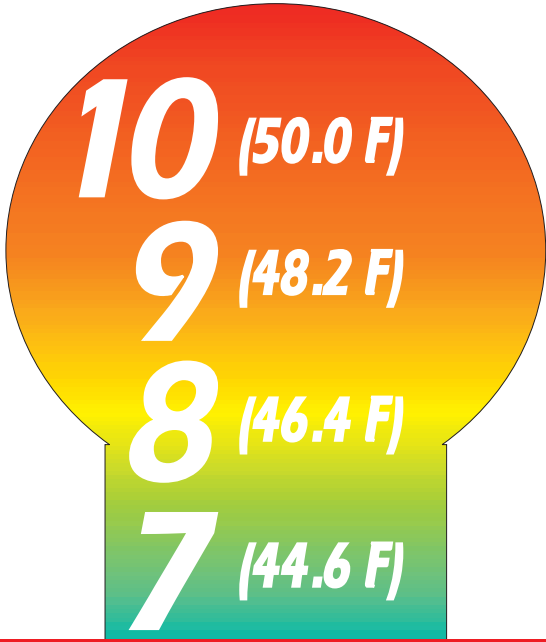


Attention: Each approved testing method has specific requirements for preservation of samples and sample temperature. If you are unsure of the temperature requirements for your specific tests, ask your project manager for temperature guidelines for your samples.



**Not Good!
Too Warm!**



**Great!
Cool between
2° C and 6° C!
(35.6° F and 42.8° F)**



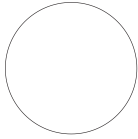
The best way to achieve the correct temperature is to place your samples on ice!

1 (33.8 F) Celsius Thermometer

Use this formula to Convert Temperatures from Celsius to Fahrenheit: $F^{\circ} = (1.8 \times C^{\circ}) + 32$
Example: $35.6^{\circ} = (1.8 \times 2) + 32$ Therefore: 2° Celsius = 35.6° Fahrenheit

SAMPLE TEMPERATURES

Different Preservatives for Different Analyses



White Lid (No Preservative)

No preservatives are needed for this type of sample.

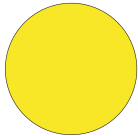
- Chloride, Nitrite, pH, Sulfates, Total Dissolved Solids (TDS), Total Suspended Solids (TSS)



Red Lid (Nitric Acid [HNO₃] Preserved Bottle)

What kind of water samples are preserved with Nitric Acid?

- Radiochemistry
- Total Metals (preserved immediately)
- Dissolved Metals (preserved immediately after filtration)



Yellow Lid (Sulfuric Acid [H₂SO₄] Preserved Bottle)

What kind of water samples are preserved with Sulfuric Acid?

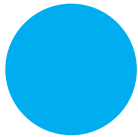
- Chemical Oxygen Demand (COD)
- Total Petroleum Hydrocarbons (TPH) (Oil and Gas)
- Nitrogen: (Ammonia, phenols, Total Kjeldahl, Nitrate + Nitrite)



Green Lid (Sodium Hydroxide [NaOH] Preserved Bottle)

What kind of water samples are preserved with Sodium Hydroxide?

- Cyanide (Total, Wad, Free, and Reactive)



Blue Lid (Hydrochloric Acid [HCl] Preserved Bottle)

(Sample must have Zero Headspace with two drops of HCl Acid per vial)

What kind of water samples are preserved with Hydrochloric Acid?

- Volatile Organic Compounds (VOC)



Green Lid with Purple Dot (Zinc Acetate and Sodium Hydroxide [ZnAC NaOH] Preserved Bottle)

What kind of water samples are preserved with Zinc Acetate and Sodium Hydroxide?

- Sulfides



White Lid with White Dot (Anhydrous Phosphoric Acid [H₃PO₄] Preserved Bottle)

What kind of water samples are preserved with Anhydrous Phosphoric Acid?

- TOC (Total Organic Carbon)
- DOC (Dissolved Organic Carbon)