

Tele 801-587-5666

## Noble Gas and Environmental Tracer Service and Pricing

## **Commercial - 2017**

<ul> <li>1 liter samples - collected in (2) 500 cc bottles</li> <li>Requires two month 3He in-growth period</li> <li>Measurement error ± 2% of value</li> <li>Detection limit depends on holding period; typically 0.05 TU</li> </ul> Tritium - <sup>3</sup> H analysis for high salinity samples - using helium in-growth <ul> <li>Required for samples over 2000 mg/1 TDS</li> <li>2 liter samples - collected in (4) 500 cc bottles</li> <li>Requires two month 3He in-growth period</li> <li>Measurement error ± 2% of value</li> <li>Detection limit depends on holding period; typically 0.05 TU</li> </ul> Bissolved gases - all noble gases - using copper tube method <ul> <li>Analyses includes: Ne Ar Kr Xe <sup>4</sup>He and <sup>3</sup>He/<sup>4</sup>He ratios</li> </ul>	Tritium - <sup>3</sup> H analysis - using helium in-growth		
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Tritium - <sup>3</sup> H analysis for high salinity samples - using helium in-growth       \$410.00         • Required for samples over 2000 mg/l TDS       \$         • 2 liter samples - collected in (4) 500 cc bottles       *         • Requires two month 3He in-growth period       *         • Measurement error ± 2% of value       *         • Detection limit depends on holding period; typically 0.05 TU       \$450.00	•	Measurement error $\pm 2\%$ of value	
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Dissolved gases - all noble gases - using copper tube method \$450.00	•	Measurement error $\pm 2\%$ of value	
	•	Detection limit depends on holding period; typically 0.05 TU	
• Analyses includes: Ne. Ar. Kr. Xe. ${}^{4}$ He and ${}^{3}$ He/ ${}^{4}$ He ratios	Dissolved gases - all noble gases - using copper tube method		\$450.00
That yes includes. Fo, Fi, Fi, Fie, The and The Fieldes	•	Analyses includes: Ne, Ar, Kr, Xe, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
• Measurement error for helium: ± 1% of value	•	Measurement error for helium: $\pm 1\%$ of value	
• Measurement error for all other gasses: $\pm 1$ % to 2% of value	•	Measurement error for all other gasses: $\pm 1$ % to 2% of value	

Dissolved gases - light noble gases - using copper tube method		
•	Analyses includes: Ne, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
•	Measurement error for helium: $\pm 1\%$ of value	
•	Measurement error for all other gasses: $\pm 1\%$ to 2% of value	
Dissol	ved gases - all noble gases - using standard diffusion sampler	\$350.00
•	Analyses includes: Ne, Ar, Kr, Xe, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
•	Measurement error for helium: $\pm 1\%$ of value	
•	Measurement error for all other gasses: $\pm 1\%$ to 2% of value	
Dissol	ved gases - light noble gases - using standard diffusion sampler	\$300.00
•	Analyses includes: Ne, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
•	Measurement error for helium: $\pm 1\%$ of value	
•	Measurement error for all other gasses: $\pm 1\%$ to 2% of value	
Dissolved gases - all noble gases - using advanced diffusion sampler		
•	Analyses includes: Ne, Ar, Kr, Xe, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
•	Measurement error for helium: $\pm 1\%$ of value	
•	Measurement error for all other gasses: $\pm 1\%$ to 2% of value	
Dissolved gases - light noble gases - using advanced diffusion sampler		\$350.00
•	Analyses includes: Ne, <sup>4</sup> He and <sup>3</sup> He/ <sup>4</sup> He ratios	
•	Measurement error for helium: $\pm 1\%$ of value	
•	Measurement error for all other gasses: $\pm 1\%$ to 2% of value	

Dissolved gases - CFC - using glass bottle		
•	Samples collected in triplicate using 125 ml glass bottles with modified lid	
•	Analyses includes concentrations of CFC-11, CFC-12 and CFC-113	
•	Measurement error: $\pm$ 5% of value	
Dissolved gases - SF <sub>6</sub> - using glass bottle		
•	Samples collected in duplicate using 1000 ml glass bottles with modified lid	
•	Analyses includes concentrations of SF <sub>6</sub>	
•	Measurement error: $\pm$ 5% of value	
Gas Chromatograph - other gases		\$200.00
•	Samples collected using diffusion samplers provided by the lab	
•	Analyses includes: N <sub>2</sub> , Ar, CO <sub>2</sub> , CH <sub>4</sub> ,	
•	Measurement error: $\pm$ 5% of value	
Shipping / Handing / Materials / Other		
•	Shipping and handling fees will be additional if needed	
•	Users are responsible for equipment damage and repair costs	
•	Pricing subject to change	