



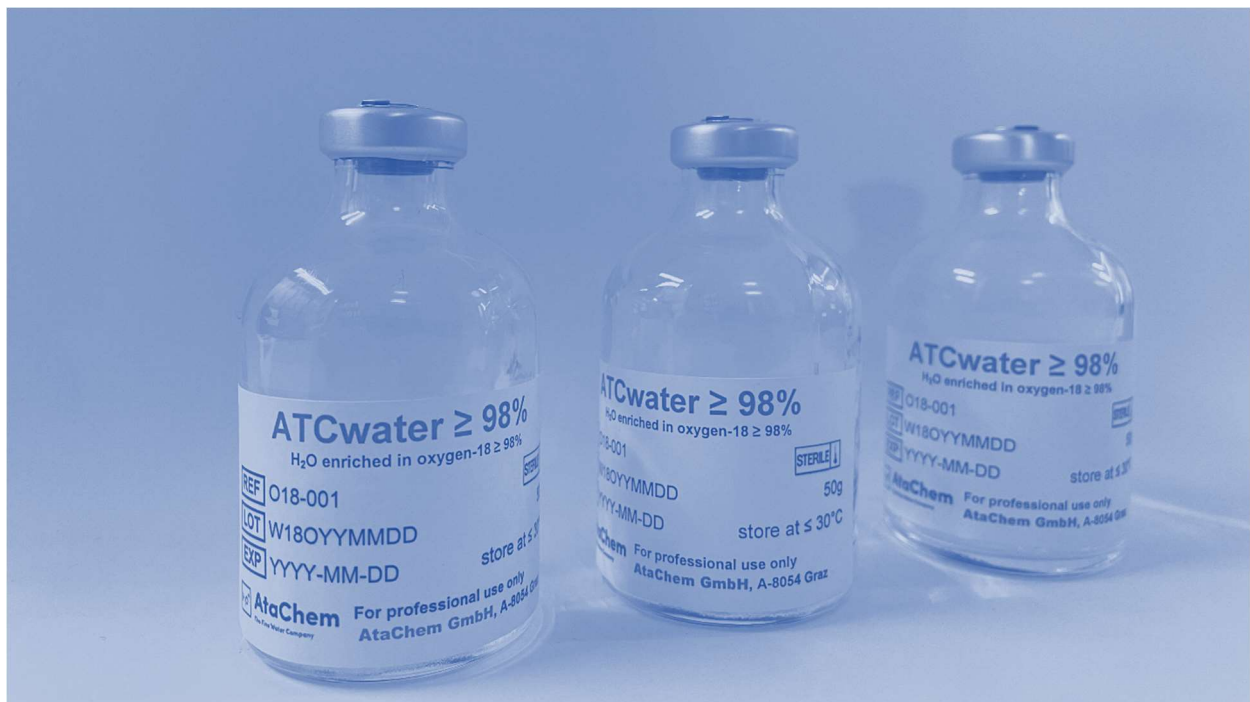
# AtaChem

The Fine Water Company

## Product Specifications

### **ATCwater $\geq$ 98%**

sterile H<sub>2</sub>O enriched in <sup>18</sup>Oxygen  $\geq$  98%



<b>Product Name:</b>	ATCwater ≥ 98%
<b>Synonyms:</b>	<sup>18</sup> O-enriched water ≥ 98%, <sup>18</sup> O-water, [ <sup>18</sup> O] – H <sub>2</sub> O, H <sub>2</sub> <sup>18</sup> O
<b>Product Number:</b>	O18-001
<b>Formula:</b>	H <sub>2</sub> <sup>18</sup> O
<b>CAS Number:</b>	14314-42-2
<b>Packaging:</b>	labelled 50mL type 1 borosilicate glass vial, closed with red bromobutyl stopper and aluminium crimp seal / packaged in a foam inlay in a labelled, sealed metal can
<b>Package Size:</b>	100g (2 vials à 50g)
<b>Label:</b>	product name and number, amount, batch number, intended use, storage conditions and expiry date, manufacturer name and logo
<b>Shelf Life:</b>	24 months (after terminal sterilisation)

Parameter	Specification	Method
Appearance	Clear and colourless liquid, free of visible particulates	Visual inspection
<sup>18</sup> O-content	≥98%	MS
Conductivity	≤ 3.0 µS/cm	Conductometric
pH	5.0 – 7.5	Potentiometric
Carbon	≤ 1.5 mg/L	Total organic carbon
Iron (Fe)	≤ 0.2 mg/L	AAS
Copper (Cu)	≤ 0.2 mg/L	AAS
Magnesium (Mg)	≤ 0.2 mg/L	AAS
Fluoride (F <sup>-</sup> )	≤ 0.5 mg/L	IC
Chloride (Cl <sup>-</sup> )	≤ 1.0 mg/L	IC
Nitrite (NO <sub>2</sub> <sup>-</sup> )	≤ 0.5 mg/L	IC
Bromide (Br <sup>-</sup> )	≤ 1.0 mg/L	IC
Nitrate (NO <sub>3</sub> <sup>-</sup> )	≤ 0.5 mg/L	IC
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	≤ 0.5 mg/L	IC
Sulphate (SO <sub>4</sub> <sup>2-</sup> )	≤ 1.5 mg/L	IC
Sodium (Na)	≤ 5 mg/L	IC / AAS
Potassium (K)	≤ 1 mg/L	IC / AAS
Calcium (Ca)	≤ 2 mg/L	IC / AAS
Sterility	Sterile	Eu.Ph. 2.6.1 / USP <71>
Endotoxin Test / LAL	< 0.25 EU/mL	Eu.Ph. 2.6.14 / USP <85>

AtaChem GmbH has implemented a quality program for the production, filling, packaging and analysis of <sup>18</sup>O-enriched water. The quality program is built upon the ISO 9001.