

# IC Application Note No. S-218

**Title:** Common anions in closed cooling water system

**Summary:** Determination of fluoride, chloride, nitrite, nitrate and sulfate in closed cooling water system using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Water of a closed cooling water system

**Sample Preparation:** Dilution 1 : 20 with ultrapure water

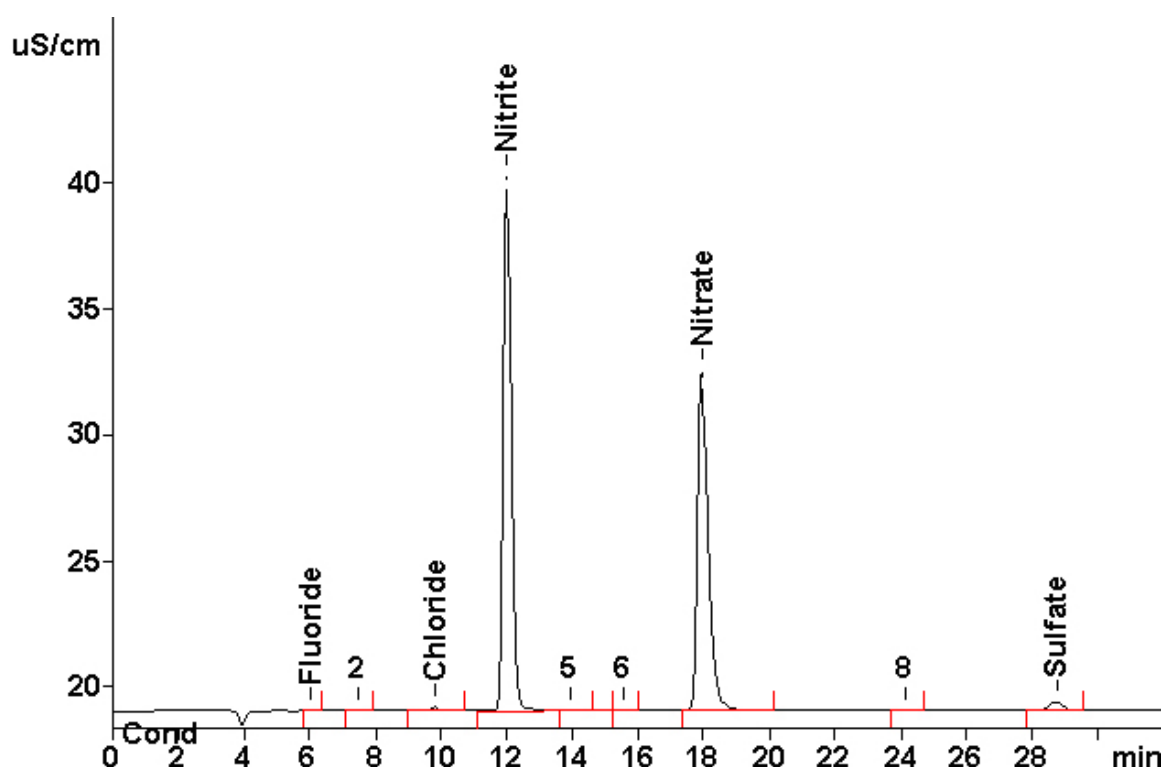
**Column:** 6.1006.530 Metrosep A Supp 5 – 250

**Eluent:** 3.2 mmol/L sodium carbonate  
1.0 mmol/L sodium hydrogencarbonate

**Suppressor:** Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric acid)

**Flow:** 0.7 mL/min

**Injection Volume:** 10 µL



<b>Results:</b>	Fluoride mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Sulfate mg/L
	0.61	4.20	704.6	744.4	23.44