

# IC Application Note No. S-8

**Title:** Six standard anions in surface water

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

**Sample:** Surface water

**Sample Preparation:** -

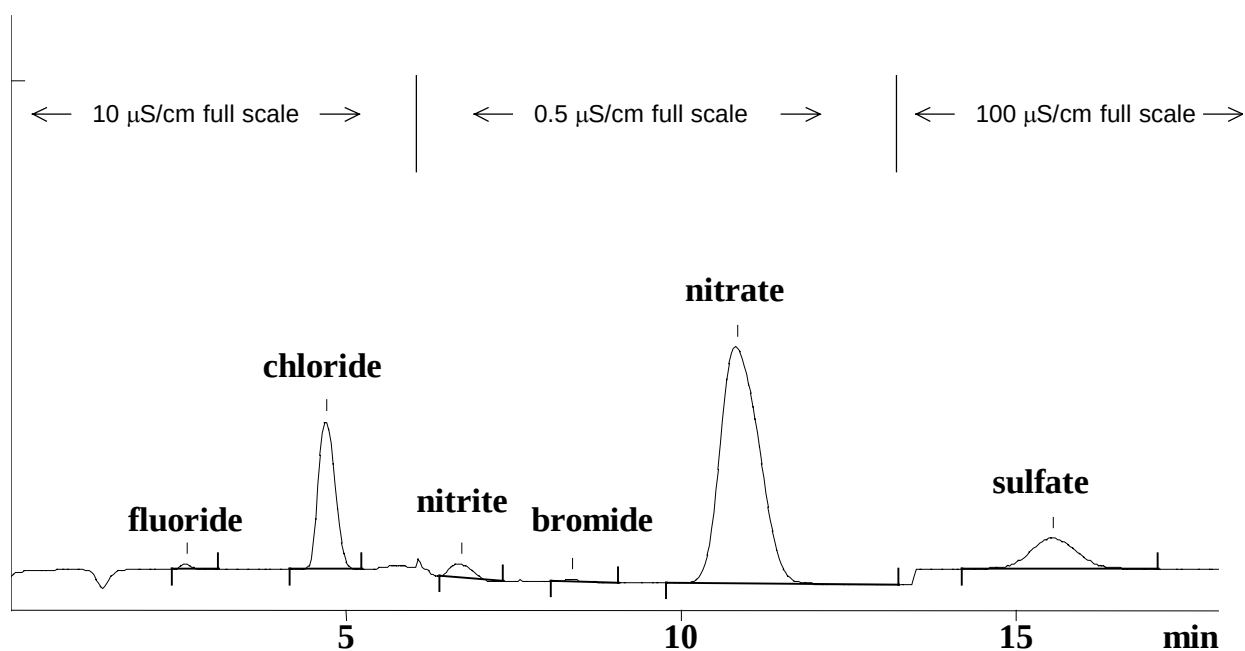
**Column:** 6.1006.100 Metrosep Anion Dual 2

**Eluent:** 2.0 mmol/L sodium hydrogencarbonate,  
1.3 mmol/L sodium carbonate

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.8 mL/min

**Injection Volume:** 20 µL



| <b>Results:</b> | F <sup>-</sup><br>mg/L | Cl <sup>-</sup><br>mg/L | NO <sub>2</sub> <sup>-</sup><br>mg/L | Br <sup>-</sup><br>mg/L | NO <sub>3</sub> <sup>-</sup><br>mg/L | SO <sub>4</sub> <sup>2-</sup><br>mg/L |
|-----------------|------------------------|-------------------------|--------------------------------------|-------------------------|--------------------------------------|---------------------------------------|
|                 | 0.114                  | 6.8                     | 0.09                                 | n.q.                    | 2.3                                  | 47.1                                  |