

IC Application Note No. S-285

Title: Anions in coolant after Metrohm Inline Dialysis

Summary: Determination of fluoride, formate, chloride, nitrite, bromide, nitrate, sulfate, oxalate and molybdate in a coolant using anion chromatography with conductivity detection after chemical suppression applying Metrohm Inline Dialysis.

Sample: Coolant

Sample Preparation: Dilution 1:1000 and subsequent injection after inline dialysis

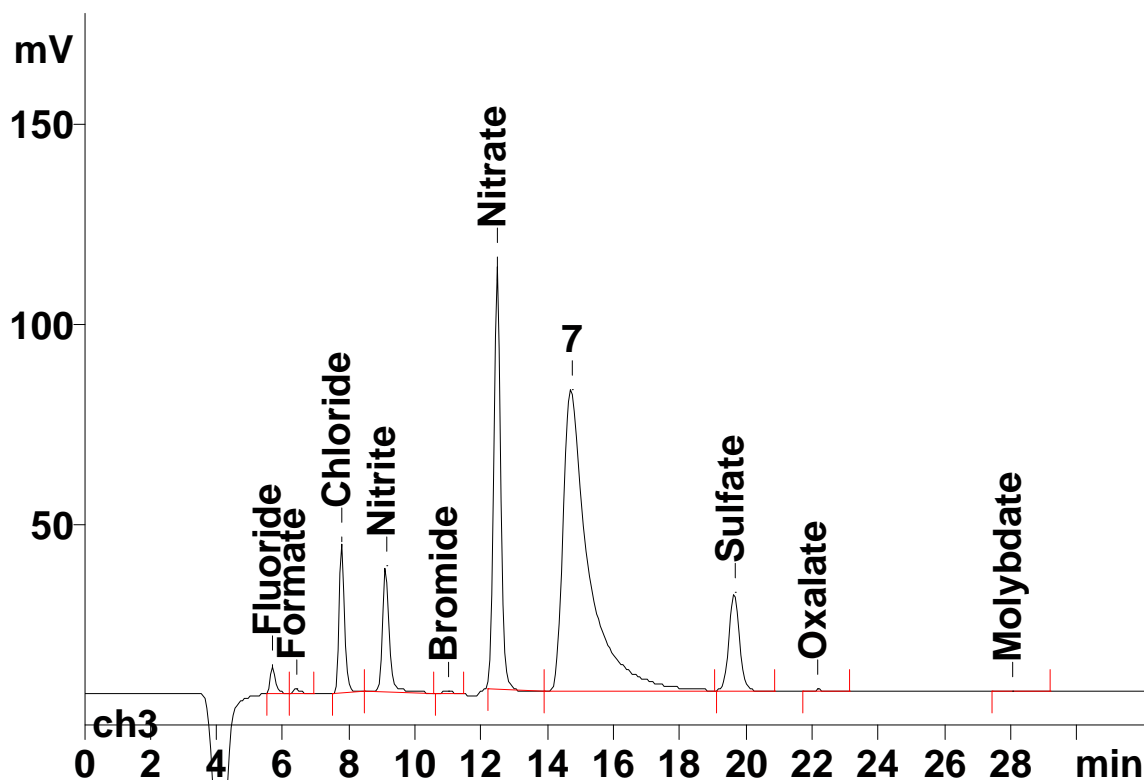
Column: 6.1006.530 Metrosep A Supp 5 – 250

Eluent: 3.2 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogen carbonate

Suppressor: Metrohm Suppressor Module MSM (50 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 100 µL



Results:	Fluoride mg/L	Formate mg/L	Chloride mg/L	Nitrite mg/L	Bromide mg/L	Nitrate mg/L	Sulfate mg/L	Oxalate mg/L	Molybdate mg/L
	37.1	24.0	266	548	11.1	1978	521	18.0	12.5

