

## IC Application Note No. S-273

Title: Fluoride, chloride and nitrate in concentrated sulfuric acid

**Summary:** Determination of fluoride, chloride and nitrate in concentrated sulfuric acid (96...98%) using anion chromatography with conductivity detection after sequential suppression.

Sample: Sulfuric acid (96...98%)

Sample Preparation: Dilution 1:100 and neutralization with ultrapure NaOH

**Column:** 6.1031.430 Metrosep A Supp 16 – 250

*Temperature:* 45 °C

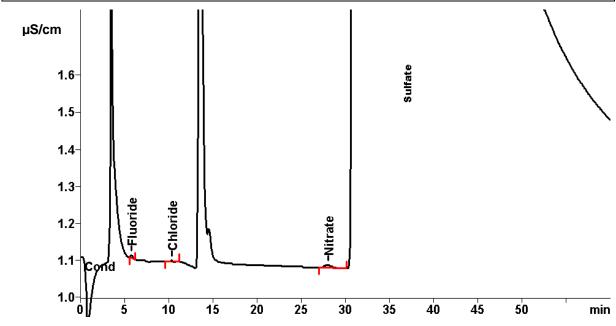
**Eluent:** 5.5 mmol/L sodium carbonate

2.5 mmol/L sodium hydrogen carbonate

**Suppressor:** Sequential suppression (MSM: 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

*Flow:* 0.8 mL/min

*Injection Volume:* 100 μL



Results:	Fluoride mg/L	Chloride mg/L	Nitrate mg/L	Sulfate
	< 5	<5	7.2	~ 98%