

IC Application Note No. S-74

Title: Trace anions in caustic soda (NaOH 50%)

Summary: Determination of chloride, chlorate and sulfate in caustic soda (NaOH 50%) after in-line neutralisation using anion chromatography with conductivity detection after chemical suppression.

Sample: Caustic soda (NaOH 50%)

Sample Preparation: In-line sample neutralisation using Metrohm Suppressor Module (MSM): Trace anions are preconcentrated on Anion Preconcentration Column (6.1006.300)

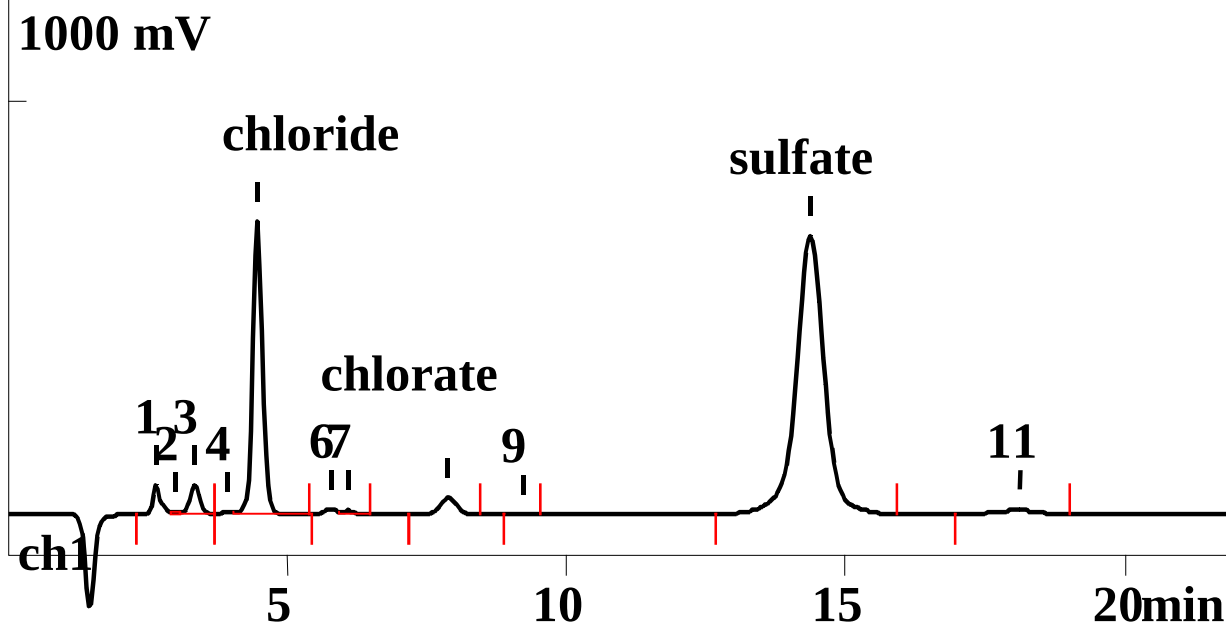
Column: 6.1006.100 Metrosep Anion Dual 2

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

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

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	Chloride mg/L	Chlorate mg/L	Sulfate mg/L
	13.4	3.6	51.3