

IC Application Note No. S-206

Title: Online monitoring of trace of anions in boiler feed water

Summary: Determination of trace levels of chloride, nitrate, phosphate and sulfate in a boiler feed water using anion chromatography with conductivity detection after chemical suppression.

Sample: Boiler feed water

Sample Preparation: Preconcentration (Metrosep A PCC, 6.1006.300)

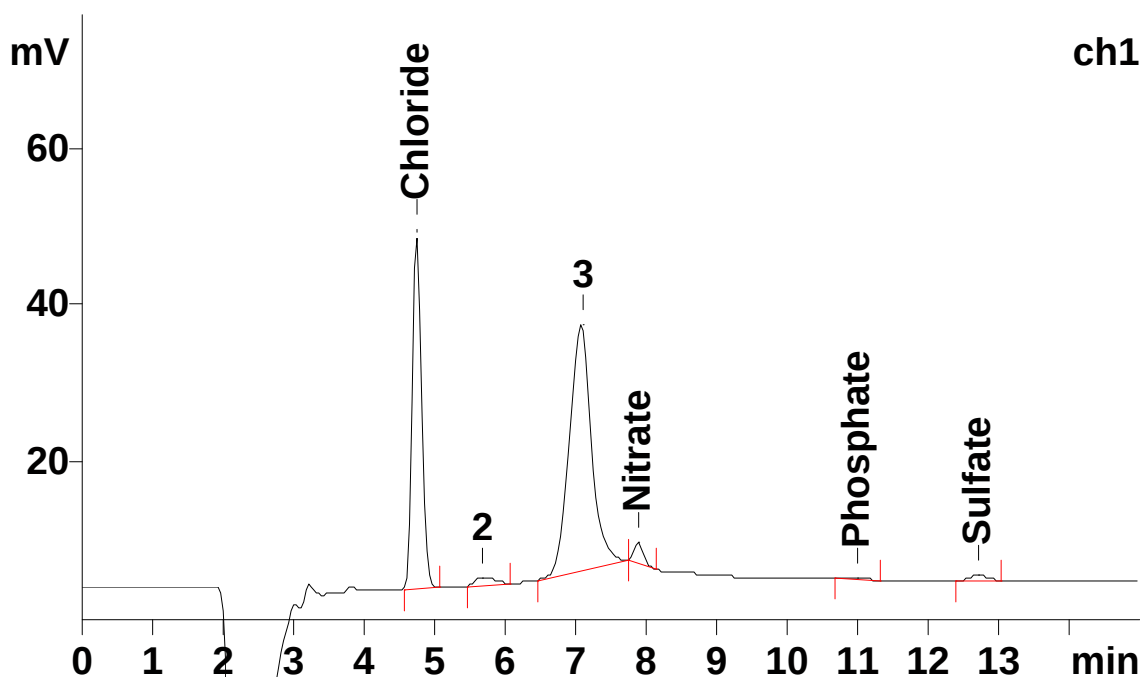
Column: 6.1006.520 Metrosep A Supp 5 – 150

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

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

Flow: 0.7 mL/min

Injection Volume: 10 mL



Results:	Chloride µg/L	Nitrate µg/L	Phosphate µg/L	Sulfate µg/L
	0.86	0.17	n.d.	0.002

See AN C-83 for the determination of cations and AN N-60 for the determination of silicate in boiler feed water