

IC Application Note No. Q-3

Title:	Online monitoring of trace levels 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

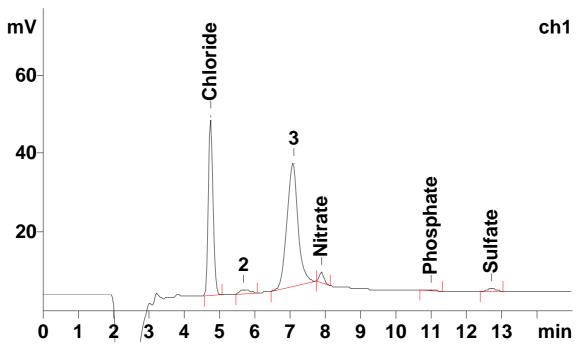
Eluent: 3.2 mmol/L sodium carbonate

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	Nitrate	Phosphate	Sulfate
	µg/L	μg/L	µg/L	µg/L
	0.86	0.17	n.q.	0.002

See AN Q-2 for the determination of cations and AN Q-1 for the determination of silicate in boiler feed water