

IC Application Note No. S-60

Title: Traces of chloride, cyanate, nitrate and sulfate in urea

Summary: Determination of traces of chloride, cyanate, nitrate and sulfate in urea using anion chromatography with conductivity detection after chemical suppression.

Sample: Urea

Sample Preparation: 10 g urea dissolved in 100 mL ultrapure water

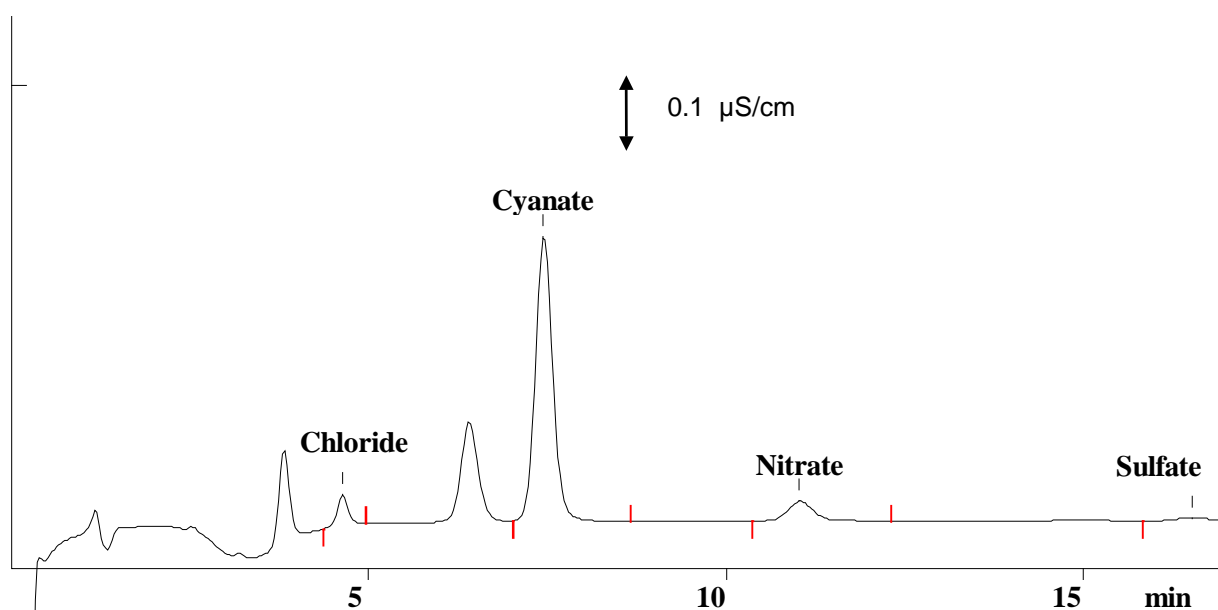
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.0 mmol/L sodium hydrogencarbonate, 1.3 mmol/L sodium carbonate, 5% acetone

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

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	Chloride µg/g	Cyanate µg/g	Nitrate µg/g	Sulfate µg/g
	0.6	24.7	1.7	0.3