

IC Application Note No. S-100

Title: Nine anions in colored liquors

Summary: Determination of fluoride, chloride, nitrite, bromide, nitrate, phosphate, sulfite, sulfate and thiosulfate in colored liquors using anion chromatography with conductivity detection after chemical suppression.

Sample: Black liquor

Sample Preparation: Dilution 1: 1000, injection through RP cartridge

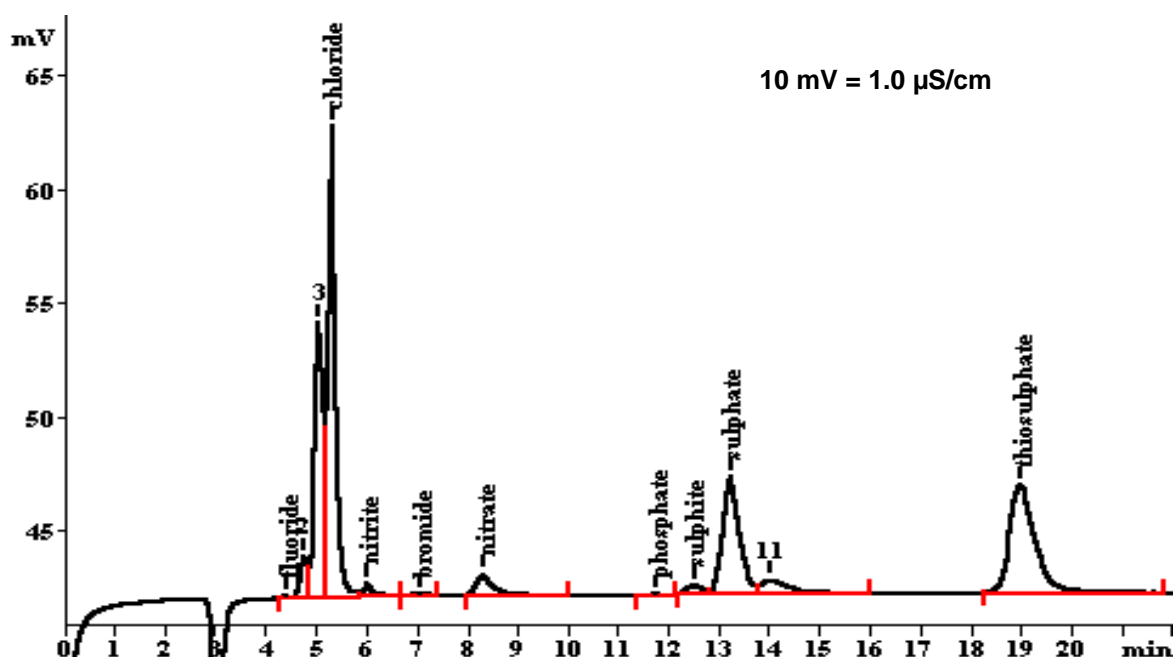
Column: 6.1005.320 Metrosep A Supp 3

Eluent: 1.7 mmol/L sodium hydrogencarbonate, 1.8 mmol/L sodium carbonate

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

Flow: 1.0 mL/min

Injection Volume: 20 µL



Results:	F ⁻	Cl ⁻	NO ₂ ⁻	Br ⁻	NO ₃ ⁻	PO ₄ ⁻	SO ₃ ²⁻	SO ₄ ²⁻	S ₂ O ₃ ²⁻
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	5.0	1965	180.2	32.4	536.1	n.d.	482.0	1783	3508