

IC Application Note No. S-130

Title: Six anions in PVC

Summary: Determination of fluoride, chloride, nitrite, nitrate, benzoate and sulfate in PVC foil using anion chromatography with conductivity detection after chemical suppression.

Sample: PVC foil

Sample Preparation: 100 cm² foil refluxed 30 min with 50 mL of ultrapure water

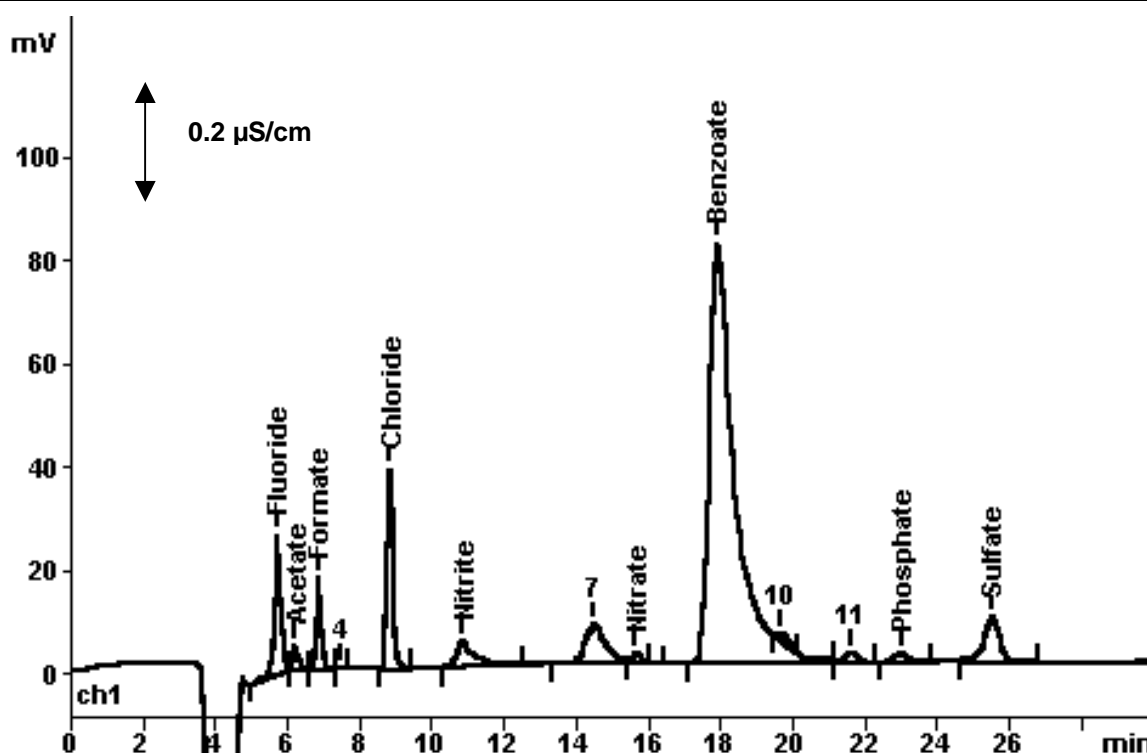
Column: 6.1006.530 Metrosep A SUPP 5-250

Eluent: 10.0 mmol/L sodium hydroxide,
2.0 mmol/L sodium carbonate, 10% acetone

Suppressor: MSM (50 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Injection Volume: 100 µL



Results:	Fluoride ng/cm ²	Chloride ng/cm ²	Nitrite ng/cm ²	Nitrate ng/cm ²	Benzoate ng/cm ²	Phosphate ng/cm ²	Sulfate ng/cm ²
	10.5	19.6	10.8	2.3	1231	9.7	16.4

Acetate, formate not quantified, Peaks 4, 7, 10 and 11 not identified.