

IC Application Note No. S-63

Title: Phosphate and phosphite in poly(vinyl phosphonic acid) using dialysis for sample preparation

Summary: Determination of phosphate and phosphite in poly(phosphonic acid) using anion chromatography with conductivity detection after chemical suppression and dialysis for sample preparation.

Sample: Poly(phosphonic acid) 30%

Sample Preparation: Dilution 1 : 1000, injection using 754 Dialysis Unit

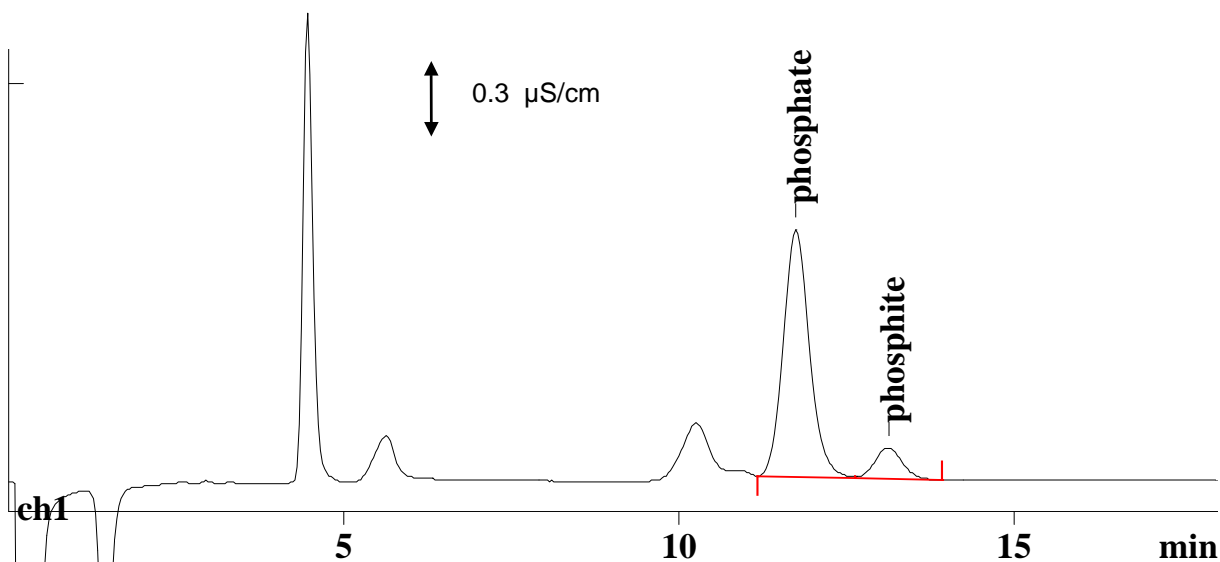
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.0 mmol/L sodium hydrogencarbonate,
1.3 mmol/L sodium carbonate

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

Flow: 0.8 mL/min

Injection Volume: 20 µL after dialysis



Results:	Phosphate (PO ₄) g/L	Phosphite (PO ₃) g/L
		13.0