

IC Application Note No. S-101

Title: Determination anions in potassium tetraborate ($\text{KB}_4\text{O}_7 \cdot 4 \text{H}_2\text{O}$)

Summary: Determination of chloride and sulfate in potassium tetraborate ($\text{KB}_4\text{O}_7 \cdot 4 \text{H}_2\text{O}$) using anion chromatography with conductivity detection after chemical suppression.

Sample: Potassium perborate ($\text{KB}_4\text{O}_7 \cdot 4 \text{H}_2\text{O}$)

Sample Preparation: 1 g of perborate dissolved in 10 mL ultrapure water

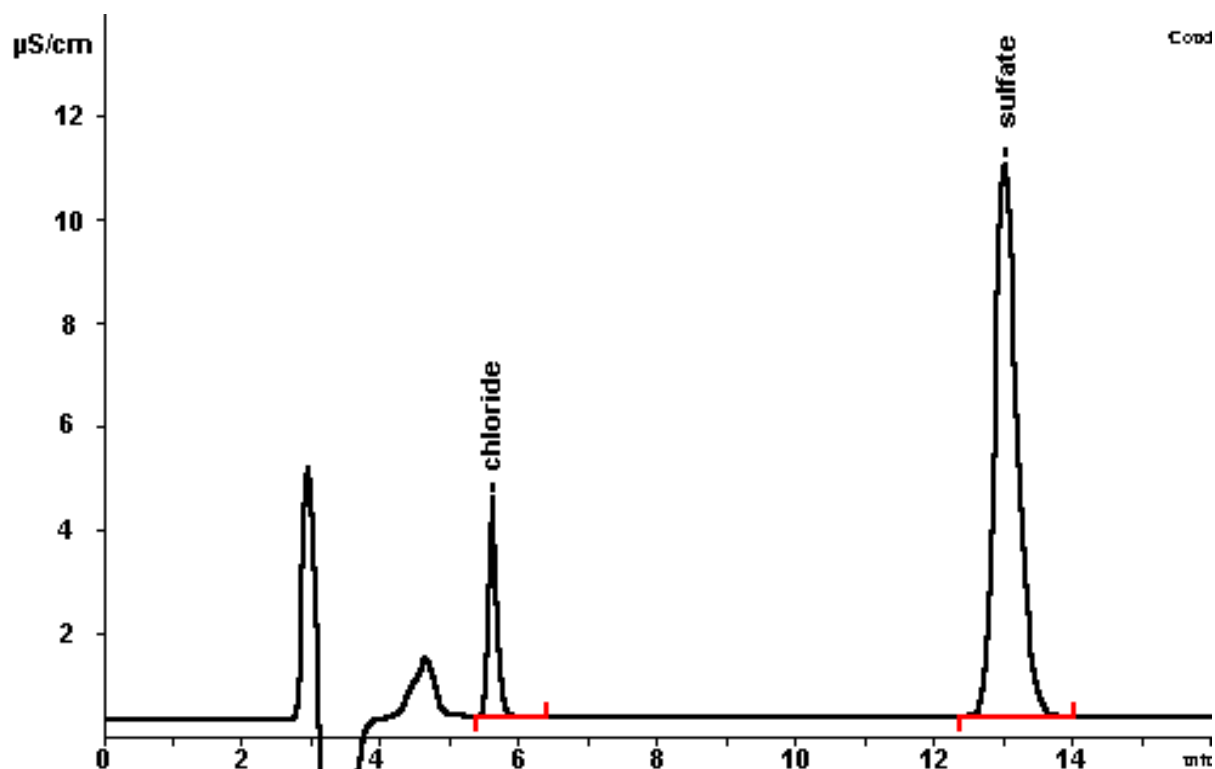
Column: 6.1005.300 Metrosep A Supp 1

Eluent: 6 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H_2SO_4)

Flow: 1.0 mL/min

Injection Volume: 20 μL



Results:	Chloride mg/L	Sulfate mg/L
	3.32	30.1