

IC Application Note No. S-64

Title: Glycolate, acetate and chloride in monochloroacetic acid

Summary: Determination of glycolate, acetate and chloride in monochloroacetic acid (MCA) using anion chromatography with conductivity detection after chemical suppression.

Sample: Monochloroacetic acid

Sample Preparation: 140 mg MCA dissolved in 100 mL ultrapure water; dilution 1 : 25

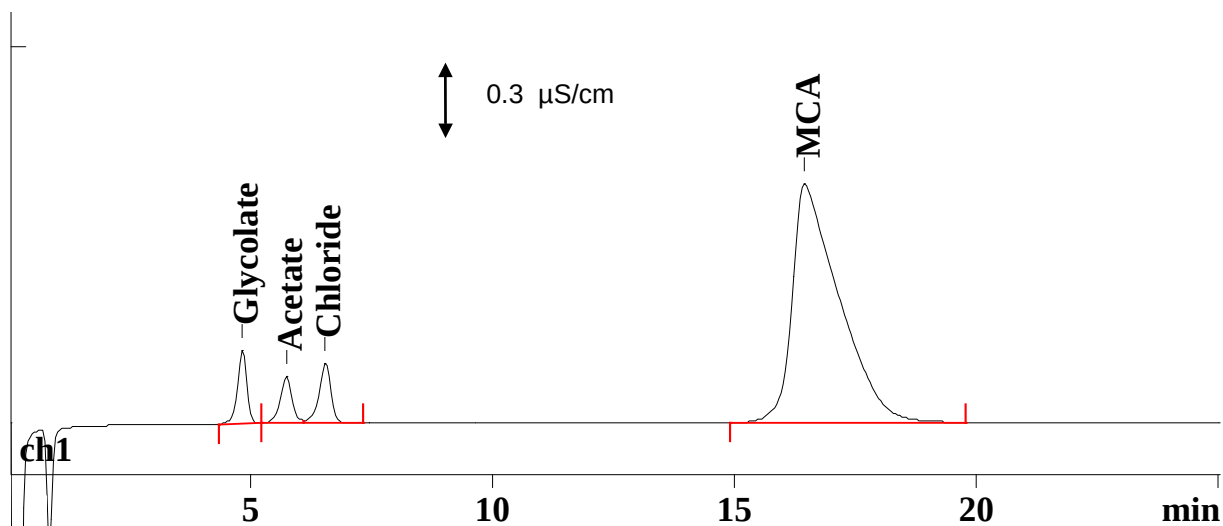
Column: 6.1005.100 Phenomenex Star-Ion A 300

Eluent: 2.0 mmol/L sodium hydrogencarbonate

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

Flow: 1.5 mL/min

Injection Volume: 20 µL



Results:	Glycolate* mg/L	Acetate mg/g	Chloride* mg/L	MCA
	3.0	83.4	1.0	n.d.

* added to the final sample solution