

IC Application Note No. O-36

Title:	The use of Metrohm CO ₂ Suppressor (MCS) in
	the determination of organic acids

Summary: Determination of formate, acetate, propionate, isobutyrate, butyrate, isovalerate, valerate and capronate added to tap water applying anion chromatography with conductivity detection after suppression. The MCS is placed upfront of the chemical suppressor to remove interfering CO₂.

Sample: Tap water spiked with organic acids

Sample Preparation: Direct injection

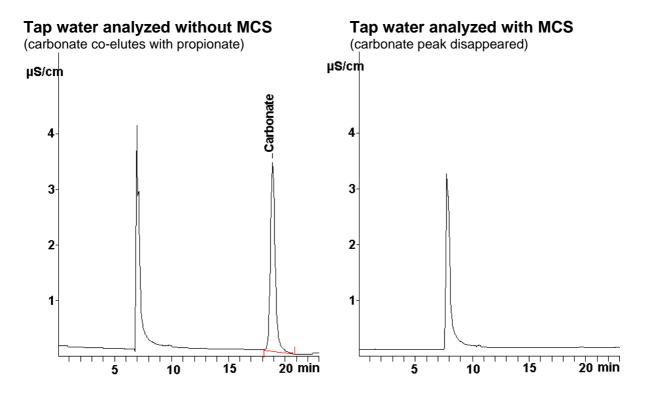
Column: 6.1005.200 Metrosep Organic Acids – 250

Eluent: 0.5 mmol/L perchloric acid

Suppressor: Metrohm Suppressor Module (MSM, 10 mmol/L LiCl)

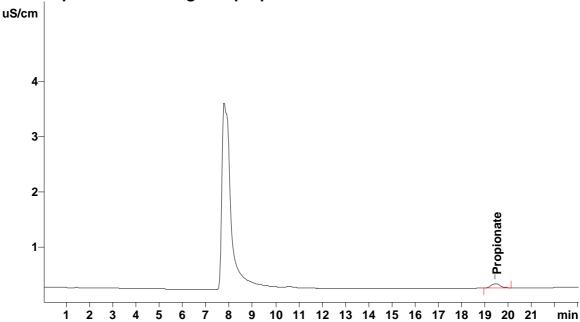
Flow: 0.5 mL/min

Injection Volume: 20 µL

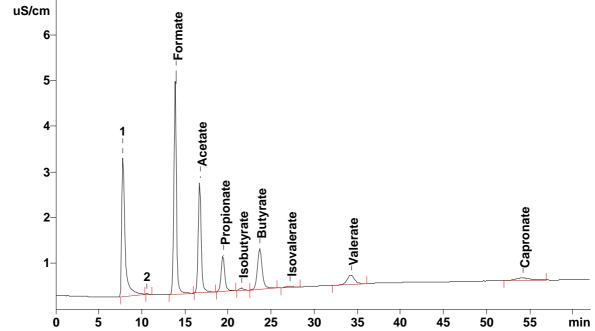


Metrohm

Tap water spiked with 1.0 mg/L of propionic acid



Tap water spiked with eight organic acids



Results:	Formate mg/L	Acetate mg/L	Propionate mg/L	Isobutyrate mg/L	Butyrate mg/L	Isovalerate mg/L	Valerate mg/L	Capronate mg/L
	20	20	10	1	20	1	10	5