

# IC Application Note No. S-6

**Title:** Hypophosphite, phosphate and organic acids in ethylene glycole

**Summary:** Determination of hypophosphite, formate, phosphate, adipate, p-nitrobenzoate and sebacate in ethylene glycole using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Ethylene glycole

**Sample Preparation:** Dilution 1: 500

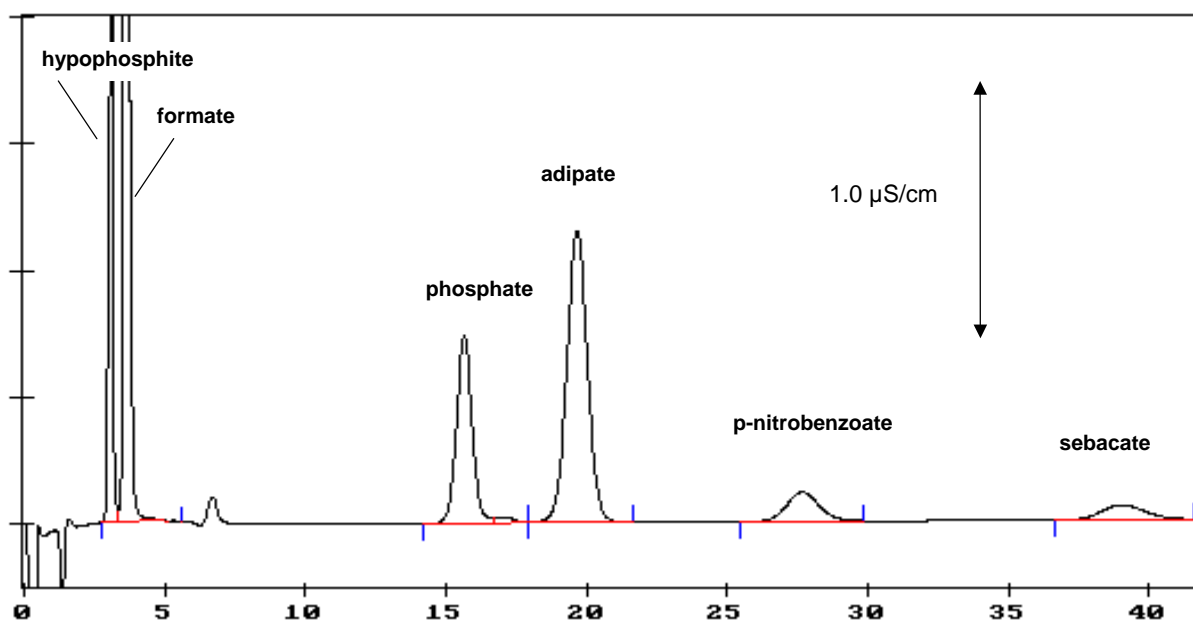
**Column:** 6.1006.100 Metrosep Anion Dual 2

**Eluent:** 2 mmol/L sodium hydrogencarbonate, 1.3 mmol/L sodium carbonate, 8 % acetone

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.8 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	H <sub>2</sub> PO <sub>2</sub> <sup>-</sup> g/L	formate g/L	HPO <sub>4</sub> <sup>2-</sup> g/L	adipate g/L	p-nitrobenz. g/L	sebacate g/L
		3.3	15.0	6.2	45.8	4.4