

## IC Application Note No. U-31

Title:	Sulfur species in process water of the paper industry by simultaneous conductivity and UV
	detection

**Summary:**Determination of sulfide and thiosulfate in a process water using anion chromatography with UV/VIS detection after chemical suppression and conductivity detection.

Sample:Process water of paper industrySample Preparation:Dilution 1 : 500 with ultrapure water, injection though 0.45 μm filter

**Column:** 6.1006.520 Metrosep A Supp 5 – 150

Wavelength: 215 nm

Eluent: 3.2 mmol/L sodium carbonate

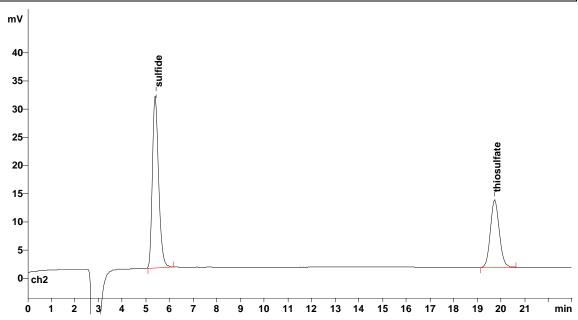
1.0 mmol/L sodium hydrogen carbonate

2.5% acetone

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

*Flow:* 0.7 mL/min

*Injection Volume:* 20 μL



Results:	Sulfide	Thiosulfate
Sample (g/L)	63.1	2.47
RSD (n=3)	1.38	1.49

See Application Note S-248 for the Conductivity results obtained with the same sample.