

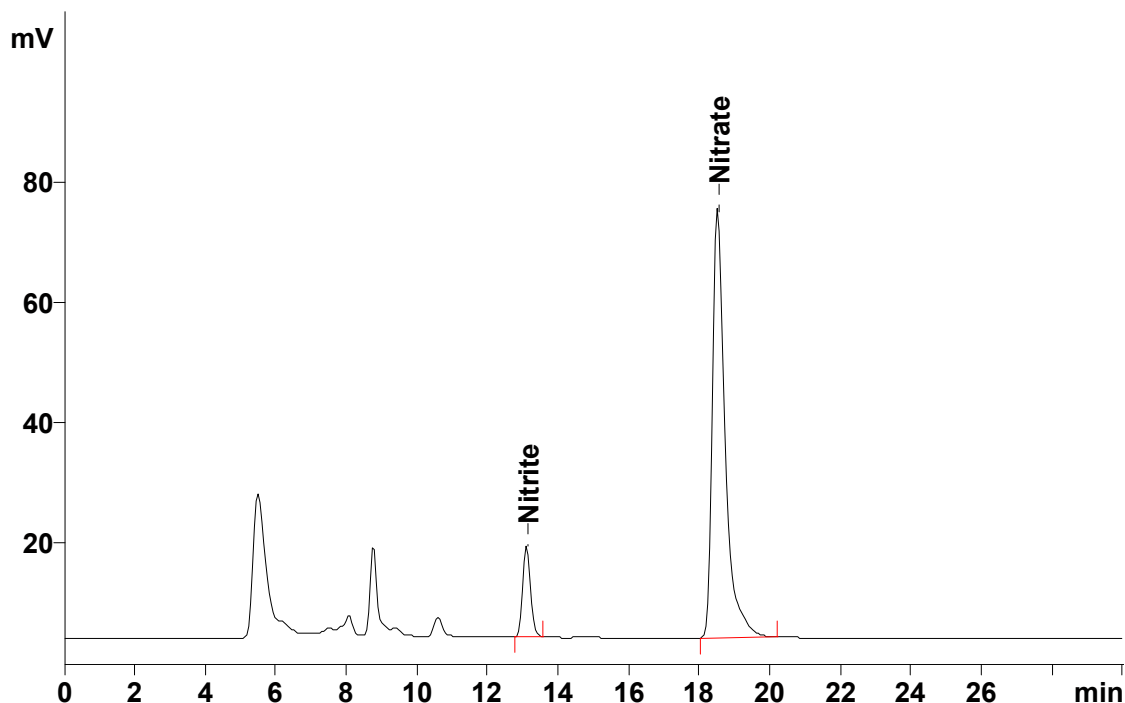
IC Application Note No. U-47

Title:	Nitrate and nitrite in cooling lubricant after Inline Dialysis
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Summary:	Determination of nitrite and nitrate in a cooling lubricant using anion chromatography with conductivity detection (see AN S-274) and subsequent UV detection after sequential suppression applying Metrohm Inline Dialysis.
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Sample:	Cooling lubricant
Sample Preparation:	Dilution 1:10 and subsequent injection after Inline Dialysis

Column:	6.1005.340 Metrosep A Supp 1 Guard 6.1006.530 Metrosep A Supp 5 – 250
Wavelength:	215 nm
Eluent:	3.2 mmol/L sodium carbonate 1.0 mmol/L sodium hydrogen carbonate
Suppressor:	Sequential suppression (MSM: 50 mmol/L H ₂ SO ₄)
Flow:	0.7 mL/min
Injection Volume:	20 µL



Results:	Nitrite mg/L	Nitrate mg/L
	14.5	125