## **IC Application Note No. S-36**

Title	The use of MSM in the determination of NTA
	EDTA and DTDA in water complex
	EDTA and DTPA in water samples
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Summary:	Determination of NTA, EDTA and DTPA in surface and
	waste water using ion pairing chromatography with UV-
	detection after post column reaction with the MSM.
Sample:	Tap water spiked with 0.4 mg/L NTA, EDTA and DTPA
Sample Preparation:	Reaction with Fe <sup>3+</sup> prior to injection
Column:	Prontosil 120-5 ODSAQ (Reversed Phase)
Eluent:	0.5 mmol/L HNO <sub>3</sub> , 2.5 mmol/L tetrabutylammonium hydroxide, 7.5 mmol/L tetrabutylammonium hydrogen
	sulphate, 5 % methanol
Suppressor:	Metrohm Suppressor Module (MSM) Regeneration: $H_2SO_4$ , Oxalic acid, Acetone Rinsing: MgSO <sub>4</sub>
Flow:	1.0 mL/min
Injection Volume:	50 μL



large injection peak due to the excess of Fe <sup>3+</sup> and allows therefore lower detection detection limits for NTA
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