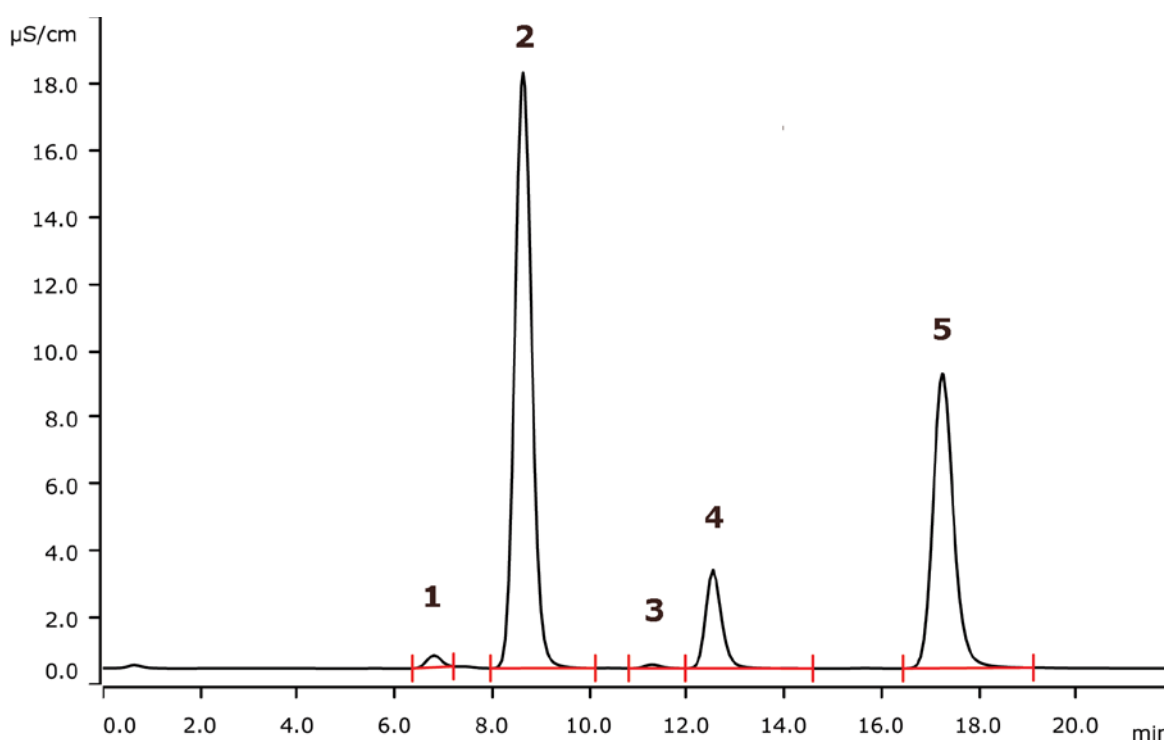


# Anions in drinking water on the Metrosep A Supp 5 - 150/2.0 column



Microbore columns with an inner diameter of 2 mm reduce the eluent consumption to about a quarter. On the other hand the detected peak areas of corresponding sample concentration are increased by a factor 4. In this report, the determination of anions in drinking water is described on a Metrosep A Supp 5 - 150/2.0 column.

## Results

| Anion      | Concentration [mg/L] | Anion     | Concentration [mg/L] |
|------------|----------------------|-----------|----------------------|
| 1 Fluoride | 0.18                 | 4 Nitrate | 3.45                 |
| 2 Chloride | 11.5                 | 5 Sulfate | 9.75                 |
| 3 Bromide  | 0.21                 |           |                      |

### Sample

Drinking water

### Sample preparation

None

### Columns

|                             |            |
|-----------------------------|------------|
| Metrosep A Supp 5 - 150/2.0 | 6.1006.220 |
| Metrosep A Supp 5 Guard/2.0 | 6.1006.600 |

### Solutions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Eluent                | 3.2 mmol/L sodium carbonate<br>1.0 mmol/L sodium hydrogen carbonate |
| Suppressor regenerant | 100 mmol/L sulfuric acid                                            |
| Rinsing solution      | STREAM                                                              |

### Analysis

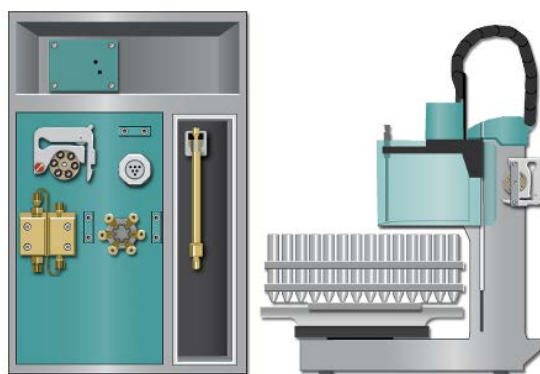
Conductivity detection after sequential suppression

### Instrumentation

|                                      |            |
|--------------------------------------|------------|
| 940 Professional IC Vario ONE/SeS/PP | 2.940.1500 |
| IC Conductivity Detector             | 2.850.9010 |
| 858 Professional Sample Processor    | 2.858.0020 |
| MSM-LC Rotor A                       | 6.2844.000 |

### Parameters

|                    |             |
|--------------------|-------------|
| Flow rate          | 0.18 mL/min |
| Injection volume   | 10 µL       |
| P <sub>max</sub>   | 20 MPa      |
| Recording time     | 22 min      |
| Column temperature | 25 °C       |



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