

# IC Application Note No. S-227

**Title:** Anions in dimethylacetamide

**Summary:** Determination of chloride, bromide, nitrate, phosphate and sulfate in dimethylacetamide applying anion chromatography with conductivity detection after chemical suppression.

**Sample:** Dimethylacetamide

**Sample Preparation:** Dilution 1 : 10 with ultrapure water

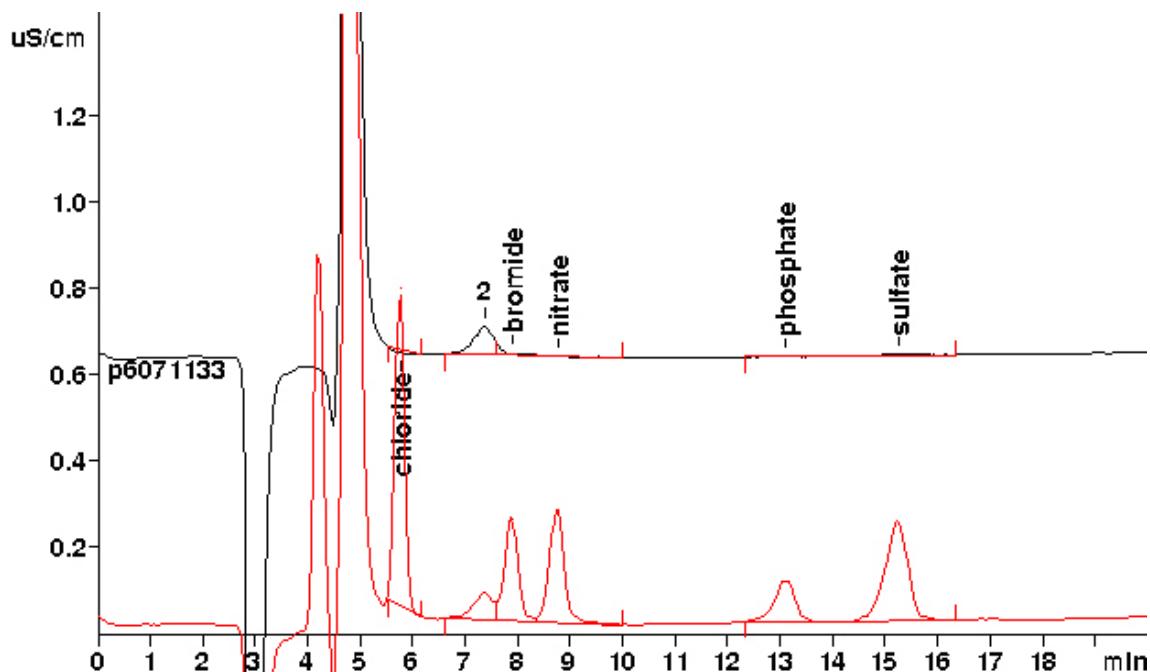
**Column:** 6.1006.520 Metrosep A Supp 5 – 150

**Eluent:**  
3.2 mmol/L sodium carbonate  
1.0 mmol/L sodium hydrogencarbonate  
10% dimethylacetamide (Chromasolv)

**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L sulfuric acid)

**Flow:** 0.7 mL/min

**Injection Volume:** 20  $\mu$ L



| <b>Results:</b>                      | Chloride<br>mg/L | Bromide<br>mg/L | Nitrate<br>mg/L | Phosphate<br>mg/L | Sulfate<br>mg/L |
|--------------------------------------|------------------|-----------------|-----------------|-------------------|-----------------|
| DMAc                                 | n.d.             | n.d.            | n.d.            | n.d.              | n.d.            |
| DMAc +10 mg/L of<br>the resp. anions | 10.08            | 9.38            | 8.69            | 9.24              | 9.87            |