Halogenated hydrocarbons, \( C_1 \)
Halogenated methanes analysis

Application Note

Environmental

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography with an Agilent PoraPLOT Q column separates six \( C_1 \) halogenated methane hydrocarbons in six minutes.
Conditions

Technique: GC-capillary

Column: Agilent PoraPLOT Q, 0.53 mm x 25 m fused silica

Temperature: 150 °C (1 min) → 200 °C, 10 °C/min

Carrier Gas: H₂, 15 mL/min

Injector: Direct

Detector: FID, 2 x 10⁻¹⁰ Afs

Sample Size: 10 µL headspace

Concentration Range: 0.1%

Solvent Sample: methanol

Peak identification

1. dichloromethane
2. trichloromethane
3. tetrachloromethane
4. bromodichloromethane
5. chlorodibromomethane
6. tribromomethane