Halogenated hydrocarbons
Analysis of impurities in 1,2-dichloroethane

Application Note

Materials Testing & Research

Introduction

Agilent PoraBOND U porous polymer is a bonded porous polymer which is prepared in-situ. This results in a very stable and inert column that can be operated at high column flow rates and valve switching. PoraBOND U provides very good peakshape for halogenated compounds. The highly pure PoraBOND U porous polymer has a stability up to 300 °C with very low bleed.

Authors

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Conditions

- **Technique**: GC-capillary
- **Column**: Agilent PoraBOND U, 0.32 mm x 25 m fused silica PLOT (df = 7 μm) (Part no. CP7381)
- **Temperature**: 30 °C
- **Carrier Gas**: He, 50 kPa (0.5 bar, 7 psi)
- **Injector**: Split, 1:30
  - T = 250 °C
- **Detector**: MSD
  - T = 250 °C
- **Sample Size**: 0.5 μL
- **Concentration Range**: Ca. 500 ppm

Peak identification

1. air
2. carbon dioxide
3. water
4. methylchloride
5. vinylchloride
6. chloroethane
7. 1,1-dichloroethylene
8. 1,2-dichloroethane
9. aromatics