C$_2$-C$_3$ hydrocarbons
Analysis of hydrocarbons in air

Application Note

Environmental

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Introduction
GC/MS analysis of C$_2$ to C$_3$ hydrocarbons in air is achieved in 5.5 minutes with an Agilent CarboBOND column.
Conditions

Technique  : GC
Column     : Agilent CarboBOND, 0.53 mm x 25 m fused silica
            (df = 10 µm) (Part no. CP7374)
            connected with 0.1 mm x 20 cm methyl deactivated
            fused silica at inlet
Temperature: 80 °C (1 min), → 300 °C, 25 °C/min
Carrier Gas: Helium, 20 kPa
Injector   : Split, 10:1
Detector   : MS
Sample Size: 0.5 mL
Concentration Range: standard with approx. 10 ppm impurities
Matrix     : air

Peak identification

1. air
2. carbon dioxide
3. acetylene
4. water
5. ethylene
6. ethane
7. propylene
8. propane