Ultra-Fast GC for Vocus PTR-TOF

Separation of isomeric species and enhanced chemical specificity for complex mixtures

Features

• Compact design with plug-and-play coupling to Vocus PTR-TOF
• Detect trace species with thermal desorption preconcentrator trap
• Results in as fast as 2 min
• Fast switching between continuous measurements and GC separations
• Integrated software control with customizable methods and workflows
• Large variety of column and traps targeting specific application

Applications

• Air monitoring
• Food, flavor, and fragrances
• Beverage and alcohol
• Material emissions
• Forensics
• Petrochemical analysis
**Vocus PTR-TOF**

Rapid analysis of isomers

Fast GC coupled with Vocus PTR-TOF shows excellent separation of monoterpenes and sesquiterpenes in under 3 min.

Identification of trace contaminants in complex mixtures

Optimized chromatographic peak separation with the Vocus GC-PTR-TOF enables robust quantification in complex mixtures. Here, a wine sample is rapidly screened for the presence of unwanted contaminants.

**Specifications**

- **Column Temperature**: Max: 360 °C
- **Max Heating Rate**: 2400 °C/min (40°C/s)
- **Max Cooling Rate**: 1200 °C/min (20°C/s)
- **Trap Low Temperature**: -5 to 100 °C
- **Trap Desorption Temperature**: 50 to 335 °C
- **Trap Heating Rate**: 60 °C/s
- **Separation Time**: 1 to 60 min
- **Accuracy (Retention Times)**: 0.03% RSD
- **Carrier Gas**: He, N₂, Ar, H₂
- **Operating Conditions**: Temperature 18-30 °C; Humidity 5-80 %
- **Size**: 45 x 18 x 55 cm; 25 kg

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