Application 253-00
Agilent Refinery Analyzer
Oxygenates in Butane Feed Stocks, Gasoline, Naphtha

Technical Overview

Application Highlights

- A single Flame Ionization Detector (FID) to detect the following components to a lower detection limit of 1 ppm:
  - Dimethyl ether (DME)
  - Ethyl-tert-butyl ether (ETBE)
  - Diisopropyl-ether (DIPE)/methyl tert-butyl ether (MTBE) - (composite)
  - sec-butyl-methyl ether (SBME)
  - tert-amylmethyl ether (TAME)
  - Methanol
  - Acetone
  - Ethanol
  - t-butanol/sec-butanol (composite)
- Analysis time: approximately 15 minutes

Optional Configurations

- Refinery gas analysis with trace sulfurs by SCD
- Additional boiling point column for the analysis of heavy hydrocarbons (C1–C30)
- Standard analysis with the addition of trace CO by methanizer
- Custom analyzer for performing ASTM D2163, ASTM D2712, and ISO 7941
- High temperature injection for heavy fractions
- High temperature reactor effluent with percent level water
- TCD/TCD/MSD for the analysis of reactor effluent gases

For More Information

For more information on our products and services, visit our Web site at www.agilent.com/chem.
FID output from the Agilent refinery analyzer.

1 Butane
2 DME
3 MTBE
4 TAME
5 Methanol
6 Ethanol
7 TBA