

Trace Oxygenates in Butane/Butenes, Gasoline and Naphtha

Configuration of an Agilent Technologies 7890N Series Gas Chromatograph with a flame ionization detector (FID) for the oxygenates in butane/butenes, gasoline and naphtha.

Determines Components

- 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
- iso-/n-Propanol
- iso-/sec-Butanol (composite)
- t-Butyl alcohol (TBA) (partial co-elution with iso-/sec-butanol)
- n-Butanol
- tert-Amyl alcohol (TAA)

A single FID detected the components to a lower quantifiable limit of 2 ppm.