Thermo Scientific Gas Chromatography Analyzers

Determination of hydrocarbons in LPG and propane/ propene gases by ASTM D2163

The Thermo Scientific TRACE 1310 GC analyzer for ASTM D2163 performs a quantitative determination of individual hydrocarbons, C2-C5, in liquefied petroleum (LP) gases and mixtures of propane.

Instrument configuration

- TRACE 1310 GC
- Flame Ionization Detector (FID)
- Auxiliary Valve oven
- Front bulkhead connection
- Separate gas and LPG injection valves with independent bulkhead connections

Representative chromatogram

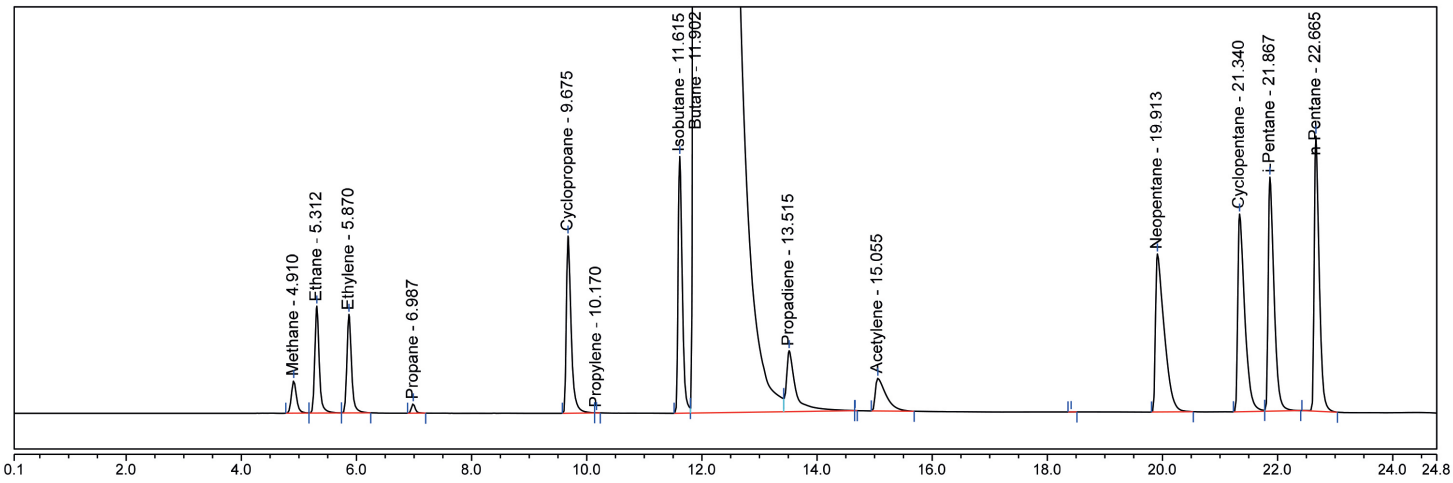

Figure 1. Butane (C4 LPG) Alumina Plot Column showing excellent separation of C1-C5 including base line separation of cyclopropane/ propylene

ThermoFisher SCIENTIFIC

thermo scientific

LPG and propane/propylene mixtures

Technical and performance specifications	
Part numbers	LHA216300011 /LHA216300011-230
Methods	ASTM D2163
Sample type	Gas or LPG
Channel 1	FID
Detection	Hydrocarbons – methane, ethane, propane, propene, acetylene, iso-butane, propadiene, butane, trans-2-butene, butene-1, isobutene, cis-2-butene, methyl acetylene and 1,3-butadiene
Typical detection limit	0.1 ppm
Working range	0.01% to 100% (v/v)

Key features

- Fully assembled and tested
- Inject gas or LPG samples
- Separate and independent column and valve oven
- Complete technical documentation package

Options

- Chromeleon Chromatography Data System

Find out more at **thermofisher.com/petro**

ThermoFisher SCIENTIFIC