

Application Data Sheet

No.47

System Gas Chromatograph

Hydrocarbon Analysis with Vaporizer Device for LPG Nexis GC-2030LPGHC1 GC-2014LPGHC1

This method is for determination of the hydrocarbons in LPG. LPG is vaporized by an on-line vaporizer device. After vaporization of hydrocarbons, a gaseous sample moves to a fixed sample loop. The sample is measured by this loop and transferred to a split/splitless injector and separated by an Alumina capillary column and detected by FID.

The analysis time is approximately 30 minutes. The system includes LabSolutions GC workstation software.

Analyzer Information

System Configuration:

One valve / capillary column with FID detector

Sample Information:

Liquid permanent gas C₁-C₆

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	CH ₄	0.001%	10.0%
2	C ₂ H ₄	0.001%	10.0%
3	C ₂ H ₆	0.001%	10.0%
4	C ₂ H ₂	0.001%	10.0%
5	C ₃ H ₈	0.001%	5.0%
6	C ₃ H ₆	0.001%	5.0%
7	i-C ₄ H ₁₀	0.001%	1.0%
8	n-C ₄ H ₁₀	0.001%	1.0%
9	Propadiene	0.001%	1.0%
10	Other C ₄ and C ₅	0.001%	0.5%
17	C ₃ H ₄	0.001%	0.5%
18	C ₆ H ₁₄	0.001%	0.5%

Detection limits may vary depending on the sample. Please contact us for more consultation.

System Features

- 15 minutes analysis for hydrocarbons analysis can be carried out
- Single FID channel
- LPG is vaporized by on-line vaporizer device

Typical Chromatograms

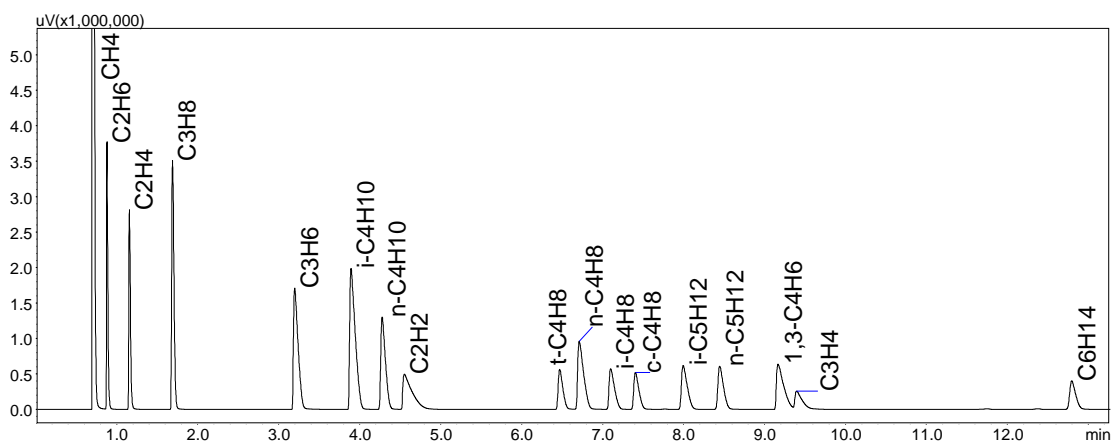


Fig. Chromatogram of FID