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Application Data Sheet

No.69

System Gas Chromatograph

Hydrocarbons in Propylene Analysis System Nexis GC-2030HC

This system is designed for quantitative and qualitative analysis of Hydrocarbons in propylene. A total of 1 valve and 2 columns are applied in this GC system. Sample is introduced into one sample loop or directly injected into SPL for determination. Using a plot Al2O3/KCl and a CP-SILICA plot as main column, Hydrocarbons elute to a TCD. LabSolution chromatography workstation system handles all aspects of GC control, automation, and data handling.

Analyzer Information

System Configuration:
One valve / two capillary columns with two FID detectors

Sample Information:
C1-C3,VA,EA,1,3-C5H8,1,2-C5H8, 3-Methyl-1,2-Butadiene

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	CH4	5.0ppm	100.0ppm	FID
2	C2H6	5.0ppm	200.0ppm	FID
3	C2H4	1.0ppm	10.0ppm	FID
4	C3H8	5.0ppm	100.0ppm	FID
5	C2H2	0.1ppm	10%	FID
6	VA	1.0ppm	10%	FID
7	EA	1.0ppm	10%	FID
8	1,2-C5H8	1.0ppm	10%	FID
9	1,3-C5H8	1.0ppm	10%	FID
10	3-Methyl-1,2-Butadiene	1.0ppm	10%	FID

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

System Features

- 40 minutes analysis for hydrocarbons analysis can be carried out
- Two FID channels
- Good repeatability

Typical Chromatograms

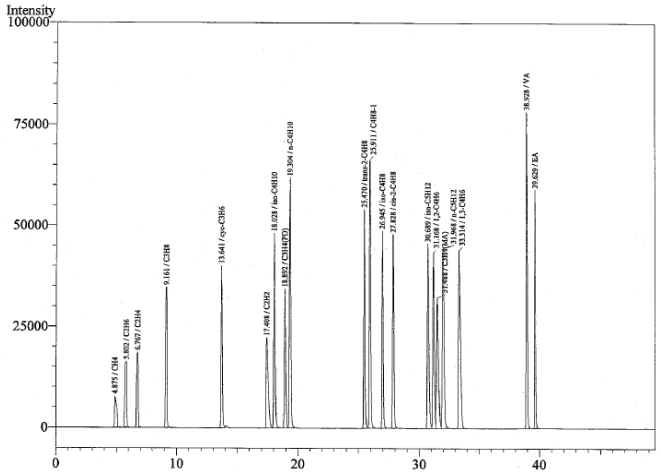

Fig. 1 Chromatogram of FID-1

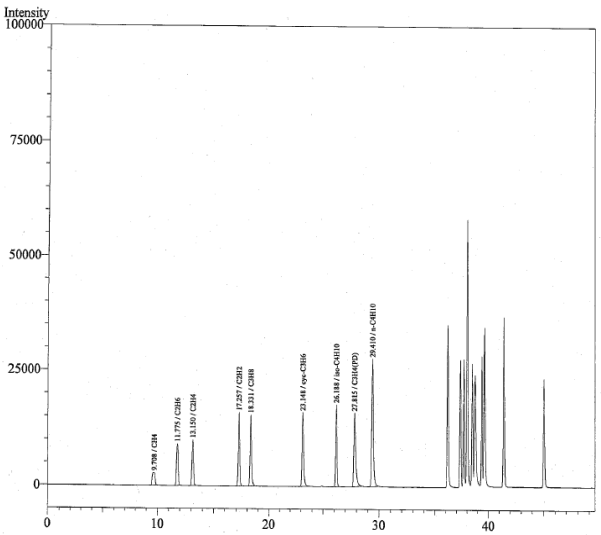

Fig. 2 Chromatogram of FID-2

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