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Application Data Sheet

No.105

System Gas Chromatograph

Glycol, Cumene, Benzene in Propylene Oxide Analysis System

Nexis GC-2030GCB
GC-2014GCB

This GC is designed to measure glycol, cumene, benzene in propylene oxide within the composition range shown in the specification sheet. The liquid sample is injection by AOC-20i to start the analysis. The sample is separated by a DB-WAX column and detected by FID. The system includes LabSolutions workstation software and BTU and Specific Gravity calculation software.

Analyzer Information

System Configuration:
One SPL / one capillary column with one FID detector

Sample Information:
Cumene, Ethylbenzene, Acetophenone, Phenol, Methylbenzilalchol, Methylstyrene, Cumyl alcohol, Propylene glycol, Dipropylene glycol Tripropylene glycol

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	Cumene	5ppm	500ppm	FID
2	Ethylbenzene	5ppm	500ppm	FID
3	Acetophenone	5ppm	500ppm	FID
4	Phenol	5ppm	500ppm	FID
5	Methylbenzilalchol	5ppm	500ppm	FID
6	Methylstyrene	5ppm	500ppm	FID
7	Cumyl alcohol	5ppm	500ppm	FID
8	Propylene glycol	5ppm	500ppm	FID
9	Dipropylene glycol	5ppm	500ppm	FID
10	Tripropylene glycol	5ppm	500ppm	FID

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

System Features

- 36 minutes analysis for all composition analysis can be carried out
- One FID channel
- Good repeatability

Typical Chromatograms

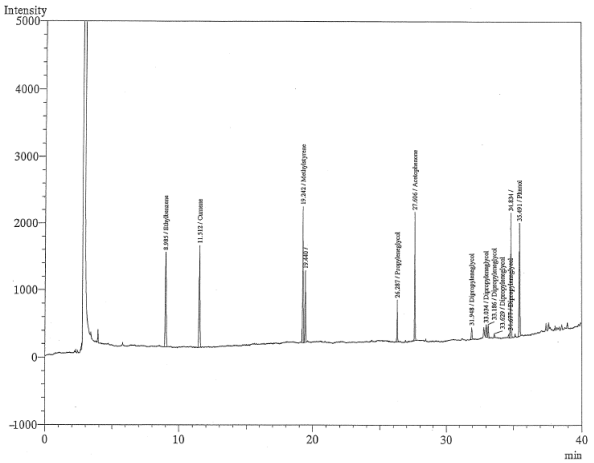

Fig. Chromatogram of FID

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