

Application Data Sheet

No. 175

System Gas Chromatograph

High Purity Benzene Analysis Nexis GC-2030BZ3 GC-2014BZ3

This method is for determining the composition of specific impurities in high purity benzene for cyclohexane feedstock. It requires the use of a dedicated gas chromatographic system which is configured with an automatic liquid injector.

Analyzer Information

System Configuration:

One SPL injector / one capillary column / one FID

Sample Information:

Toluene, Methylcyclopentane, n-Hexane, 2-Methylhexane, Cyclohexane, Cyclopentane, 2-Methylpentane, 2,3-Dimethylpentane, 3-Methylhexane, n-Heptane, Methylcyclohexane, Ethylcyclopentane, 2,4-Dimethylhexane, Trimethylpentane, Benzene

Methods met:

ASTM-D5713

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	Toluene	2 ppm	10,000 ppm
2	Methylcyclopentane	2 ppm	10,000 ppm
3	n-Hexane	2 ppm	10,000 ppm
4	2-Methylhexane	2 ppm	10,000 ppm
5	Cyclohexane	2 ppm	10,000 ppm
6	Benzene	0.1 %	100 %
7	Cyclopentane	2 ppm	10,000 ppm
8	2-Methylpentane	2 ppm	10,000 ppm
9	2,3-Dimethylpentane	2 ppm	10,000 ppm
10	3-Methylhexane	2 ppm	10,000 ppm
11	n-Heptane	2 ppm	10,000 ppm
12	Methylcyclohexane	2 ppm	10,000 ppm
13	Ethylcyclopentane	2 ppm	10,000 ppm
14	2,4-Dimethylhexane	2 ppm	10,000 ppm
15	Trimethylpentane	2 ppm	10,000 ppm

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

System Features

- Single FID channel
- Good repeatability

Typical Chromatograms

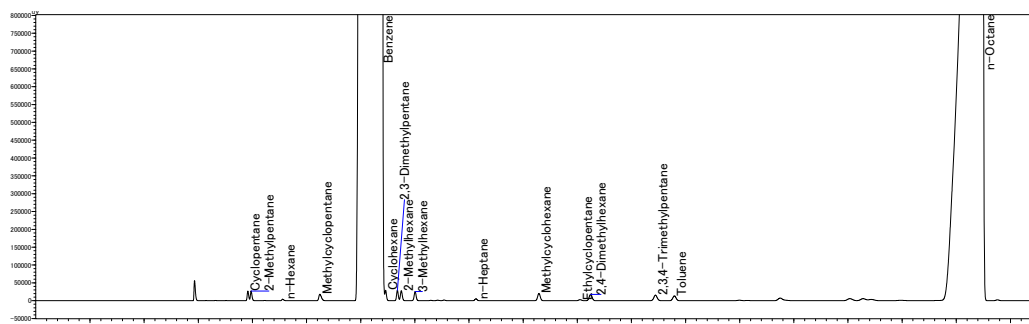


Fig. 1 Chromatogram of FID

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