

Application Data Sheet

No. 182

System Gas Chromatograph

Lower Boiling Hydrocarbons in Olefinic Gasolines Nexis GC-2030LBH2 GC-2014LBH2

This method is for determining low boiling hydrocarbons in olefinic gasoline as described in below compound table. 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 detector

Sample Information:

Determining C5 and lighter paraffins and mono olefins in olefinic gasolines having a final boiling point of 260°C or lower.

Methods met:

UOP 725

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	Propane + Propylene	500 ppmwt	10,000 ppmwt
2	Isobutane	500 ppmwt	10,000 ppmwt
3	1-Butene	500 ppmwt	10,000 ppmwt
4	Isobutylene	500 ppmwt	10,000 ppmwt
5	n-Butane	500 ppmwt	10,000 ppmwt
6	trans-2-Butene	500 ppmwt	10,000 ppmwt
7	cis-2-Butene	500 ppmwt	10,000 ppmwt
8	3-Methyl-1-butene	500 ppmwt	10,000 ppmwt
9	Isopentane	500 ppmwt	10,000 ppmwt
10	1-Pentene	500 ppmwt	10,000 ppmwt
11	2-Methyl-1-butene	500 ppmwt	10,000 ppmwt
12	n-Pentane	500 ppmwt	10,000 ppmwt
13	trans-2-Pentene	500 ppmwt	10,000 ppmwt
14	cis-2-Pentene	500 ppmwt	10,000 ppmwt
15	2-Methyl-2-butene	500 ppmwt	10,000 ppmwt
16	Benzene	500 ppmwt	10,000 ppmwt
17	Toluene	500 ppmwt	10,000 ppmwt
18	Ethylbenzene	500 ppmwt	10,000 ppmwt
19	m,p-Xylene	500 ppmwt	10,000 ppmwt
20	o-Xylene	500 ppmwt	10,000 ppmwt

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

System Features

- Single FID channel
- Good repeatability

Typical Chromatograms

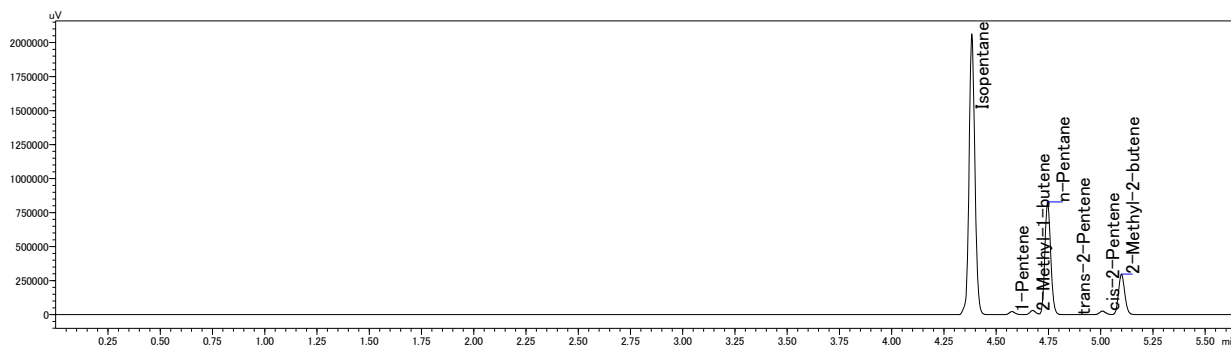


Fig. 1 Chromatogram of FID - 1 of 2

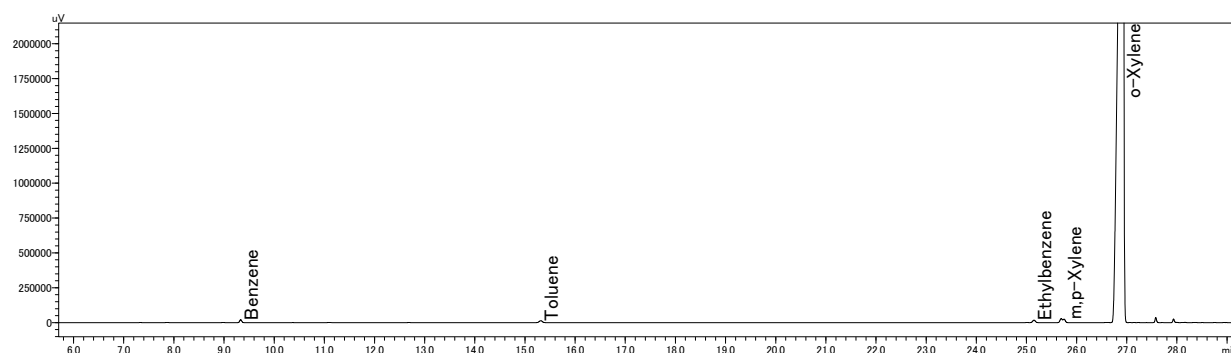


Fig. 2 Chromatogram of FID - 2 of 2