SHIMADZU
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Application Data Sheet

No.10

System Gas Chromatograph

Sulfur Analyzer
Nexis GC-2030PFPD2
GC-2014PFPD2

This method is for determining the sulfide compounds in gasoline using a pulsed flame photo-metric detector (PFPD) and capillary column. This system is composed of one split/splitless injection port, one capillary column and one PFPD. The system includes LabSolutions GC workstation software.

Analyzer Information

System Configuration:
Capillary Inlet / Capillary column / PFPD detector

Sample Information:
Sulfur compounds in light petroleum liquids , such as H_2S, COS, SO_2, mercaptans, aromatic sulfur compounds and sulfides

Methods met:
ASTM-D6228

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	H2S	0.05ppmV	100ppmV
2	COS	0.05ppmV	100ppmV
3	MeSH	0.05ppmV	100ppmV
4	EtSH	0.05ppmV	100ppmV
5	DMS	0.05ppmV	100ppmV
6	CS2	0.05ppmV	100ppmV
7	PrSH	0.05ppmV	100ppmV
8	BuSH	0.05ppmV	100ppmV

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

System Features

- Sulfur analysis in light petroleum liquids and gasoline
- Sample lines including injection port inert in order to avoid absorption
- High selectivity for sulfur
- Equimolar, simplifies quantification of unknowns

Typical Chromatograms

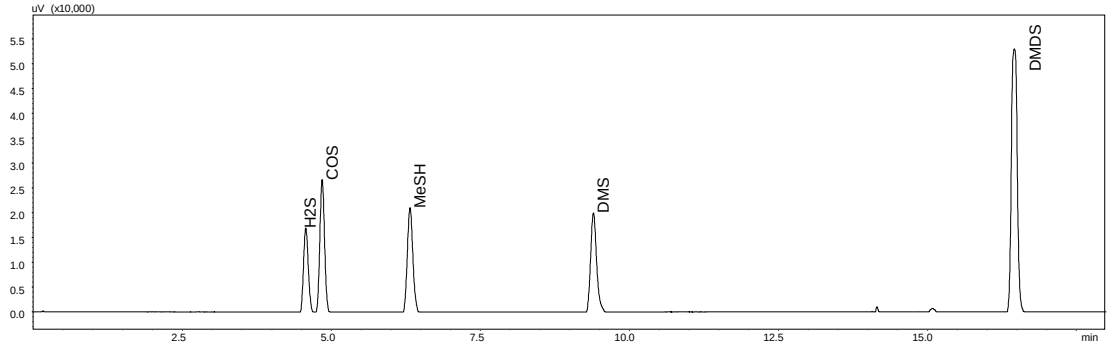

Fig. 1 Chromatogram of PFPD

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