SHIMADZU
Excellence in Science

Application Data Sheet

No.174

System Gas Chromatograph

Oxygenates in Hydrocarbons
Nexis GC-2030OXY2
GC-2014OXY2

These method are for determining oxygenates in lighter hydrocarbons up to C5. Non-oxygenate compounds are vented by back-flushing, then oxygenates are separated and introduced into FID.

Analyzer Information

System Configuration:
One valve and one SPL Injector / two capillary columns / one FID

Sample Information:
Oxygenates in C5 or lighter hydrocarbons matrix

Methods met:
ASTM-D7423

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	DME	0.5 ppm	100 ppm
2	Diethyl ether	0.5 ppm	100 ppm
3	Acetaldehyde	0.5 ppm	100 ppm
4	ETBE	0.5 ppm	100 ppm
5	MTBE	0.5 ppm	100 ppm
6	DIPE	0.5 ppm	100 ppm
7	Methanol	0.5 ppm	100 ppm
8	Acetone	0.5 ppm	100 ppm
9	MEK	0.5 ppm	100 ppm

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

System Features

- Single FID channel
- Good repeatability
- Inert-treated flow path to prevent absorbent
- Gas sampling / LPG sampling devices can be used (optional)

Typical Chromatograms

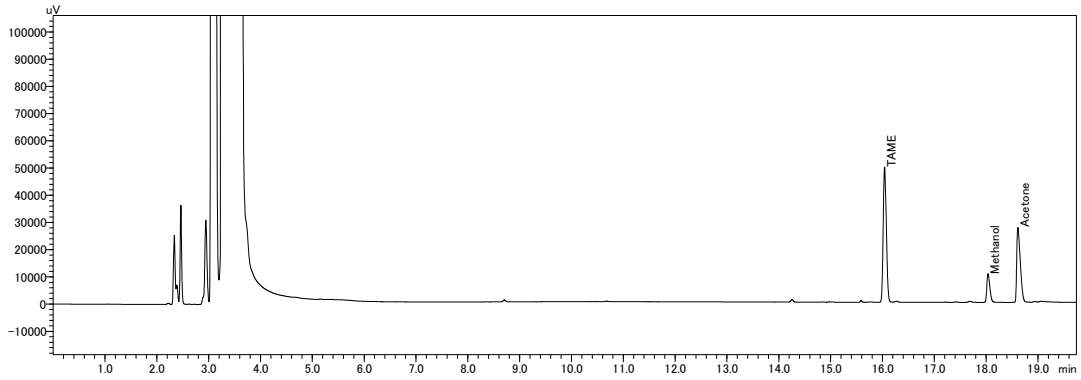

Fig. 1 Chromatogram of FID

First Edition: November, 2017

Shimadzu Corporation
www.shimadzu.com/an/