SHIMADZU
Excellence in Science

CoreFocus Report

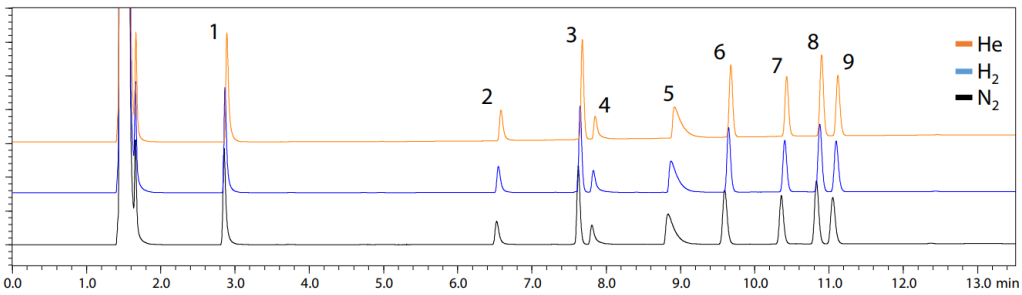
No.346

GC | FID | AOC | SH Series

SH-PolarWax

Comparison of Separation Performance with Various Carrier Gases

Keywords: Grob test mixture



Grob Test Mix
1. Decane
2. Nonanal
3. Octanol
4. 2,3-Butanediol
5. Dicyclohexylamine
6. Methyllaurate
7. Xylidine
8. 2,6-Dimethylphenol
9. 2-Ethylhexanoicacid
(10 ppm each)

Main Unit	:	Nexis^{TM} GC-2030 / AOC-20i Plus
Injection Volume	:	0.5 µL
Injection Mode	:	Split
Split Ratio	:	1:39
Injection Temp.	:	260 ˚C
Carrier Gas	:	H_2 / He / N_2
Carrier Gas Control	:	Linear Velocity (20, 30, 40, 50 cm/s)
Column	:	SH-PolarWax (30 m x 0.25 mm I.D. df = 0.50 µm), P/N: 227-36248-01
Column Temp.	:	70 ˚C (2 min) - 20 ˚C/min - 180 ˚C - 5 ˚C/min - 200 ˚C (15 min)
Detector	:	Hydrogen gas flame ionization detector (FID)
Detector Temp .	:	260 ˚C
Detector Gas	:	H_2 32.0 mL/min, Air 200 mL/min
Makeup Gas	:	When using H_2/N_2 carrier gas N_2 (24 mL/min) When using He carrier gas He (24 mL/min)

Source : Application News G328 (JP, ENG)

Shimadzu Corporation
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