

InertSearch for GC

Micro GC Applications

Internal gas of the lithium ion battery

Data No. MA004-0000

Specification

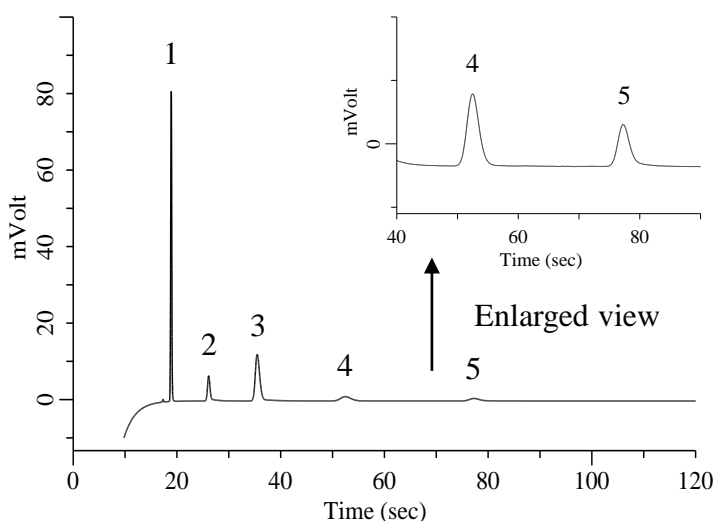
Two GC Channels

► Option

Dual Carrier Gas

Backflush (BF)

Channel 1. Molsieve 5A



Conditions

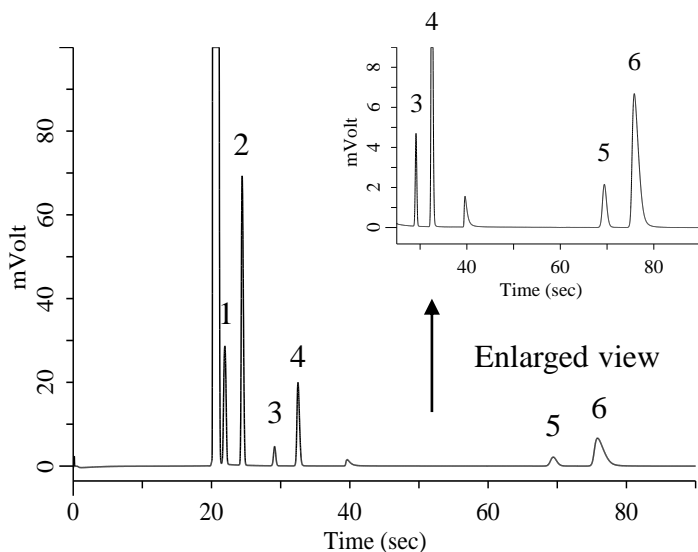
System : Micro GC
Column : Molsieve 5A 10 m + BF 1m
BF Time : 4.4 sec
Column Temp. : 80 °C
Carrier Gas : Ar 190 kPa
Inject Time : 40 msec

Analyte:

1. Hydrogen (H ₂)	1.5 % (v/v)
2. Oxygen (O ₂)	---
3. Nitrogen (N ₂)	---
4. Methane (CH ₄)	1 % (v/v)
5. Carbon monoxide (CO)	1.5 % (v/v)

Balance Gas Ar

Channel 2. PoraPLOT Q



Conditions

System : Micro GC
Column : PoraPLOT Q 10 m
Column Temp. : 80 °C
Carrier Gas : He 170 kPa
Inject Time : 40 msec

Analyte:

1. Methane (CH ₄)	1 % (v/v)
2. Carbon dioxide (CO ₂)	1.5 % (v/v)
3. Ethylene (C ₂ H ₄)	0.1 % (v/v)
4. Ethane (C ₂ H ₆)	0.5 % (v/v)
5. Propylene (C ₃ H ₆)	0.1 % (v/v)
6. Propane (C ₃ H ₈)	0.5 % (v/v)

Balance Gas Ar