

CoreFocus
Report
No.345

GC

FID

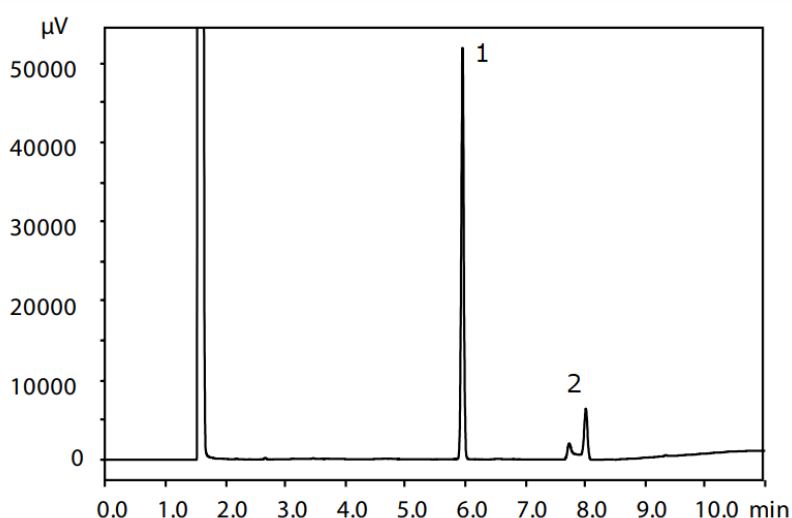
AOC

SH Series

SH-1

Analysis of Gas-Phase Formaldehyde by GC-FID Method

Keywords: DNPH Derivatization



1. Formaldehyde, 2,4-(dinitrophenyl) hydrazone
2. Acetaldehyde, 2,4-(dinitrophenyl) hydrazone
(100 ng/μL each)

Main Unit	: Nexis™ GC-2030AF / AOC-20i Plus
Injection Mode	: Split (1:30)
Injection Volume	: 1.0 μL
Injection Temp.	: 280 °C
Carrier Gas	: He
Carrier Gas Control	: Constant Linear Velocity (35 cm/s)
Purge Gas	: 3.0 mL/min
Column	: SH-1 (30 m x 0.32 mm I.D. df = 1.0 μm), P/N: 221-75725-30
Column Temp.	: 240 °C (8 min) - 20 °C/min - 260 °C (2 min)
Detector	: Hydrogen gas flame ionization detector (FID)
Detector Temp.	: 280 °C
Detector Gas	: H ₂ 32.0 mL/min, Air 200 mL/min
Makeup Gas	: He 24 mL/min

Source : Application News G327 ([JP](#), [ENG](#))

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