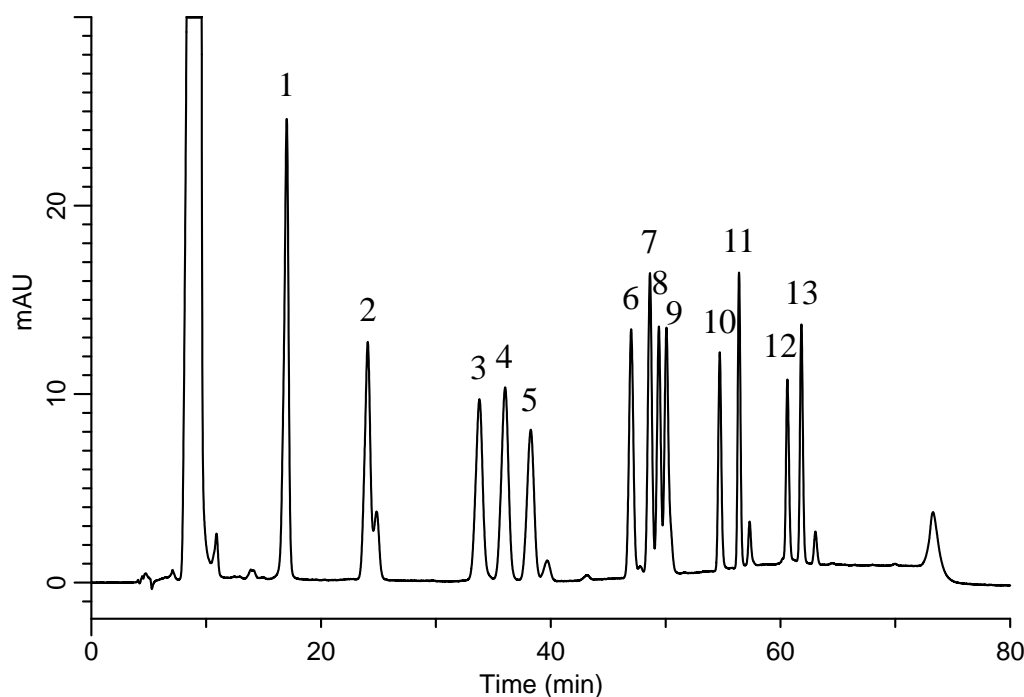


# InertSearch™ for LC

Inertsil® Applications

## Analysis of 13 kinds of Aldehydes (Directed by Pre-Column Method with DNPH)

Data No. LB377-0894



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain AQ-C18 HP  
(3  $\mu$  m, 250 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-89937  
**Eluent** : A) CH<sub>3</sub>OH  
B) H<sub>2</sub>O

Time (min)	A (vol%)	B (vol%)
0.0	65	35
30.0	65	35
50.0	85	15
65.0	85	15
66.0	65	35
80.0	65	35

**Flow Rate** : 0.6 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 360 nm (PD7752 PDA Detector)  
**Injection Vol.** : 20  $\mu$  L  
**Sample** : Standard

### Analyte:

1. DNPH-Formaldehyde	0.3 mg/L
2. DNPH-Acetaldehyde	0.3 mg/L
3. DNPH-Acrolein	0.3 mg/L
4. DNPH-Acetone	0.3 mg/L
5. DNPH-Propionaldehyde	0.3 mg/L
6. DNPH-Crotonaldehyde	0.3 mg/L
7. DNPH-Methacrolein	0.3 mg/L
8. DNPH- <i>n</i> -Butyraldehyde	0.3 mg/L
9. DNPH-Methylethylketone	0.3 mg/L
10. DNPH-Benzaldehyde	0.3 mg/L
11. DNPH- <i>n</i> -Valeraldehyde	0.3 mg/L
12. DNPH- <i>m</i> -Tolualdehyde	0.3 mg/L
13. DNPH-Hexanal	0.3 mg/L