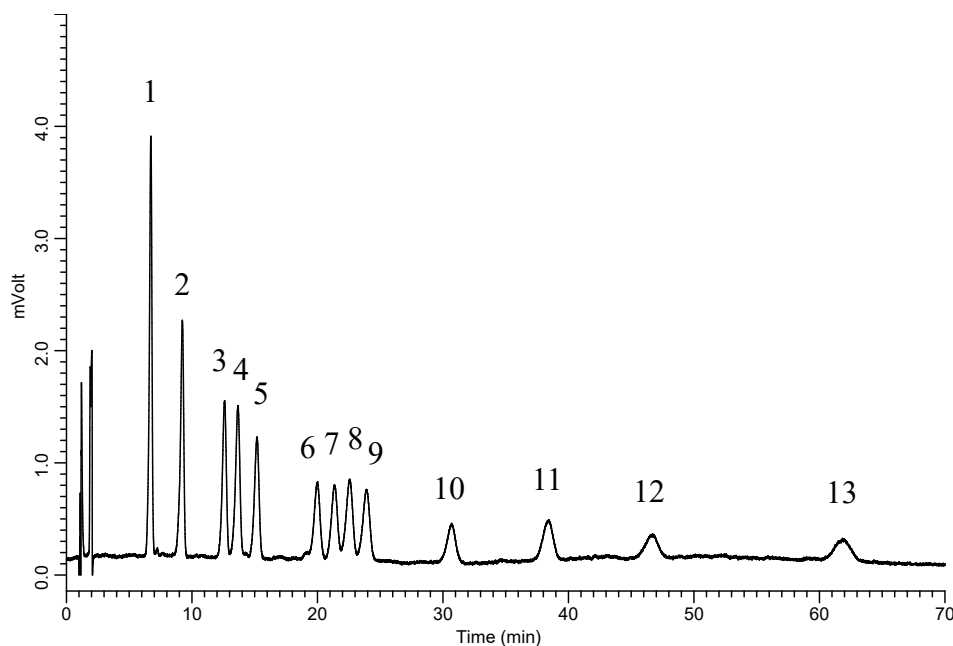


# InertSearch™ for LC

Inertsil® Applications

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

Data No. LA961-0894



### Conditions

**System** : LC800 HPLC system  
**Column** : InertSustain C18 HP (3 $\mu$ m, 150 x 3.0 mm I.D.)  
**Column Cat. No.** : 5020-14425  
**Eluent** : A) CH<sub>3</sub>CN  
          B) H<sub>2</sub>O  
          C) THF  
          A/B/C = 35/55/10, v/v/v  
**Flow rate** : 0.5 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : UV 360 nm (LC800 UV Detector)  
**Injection Vol.** : 10  $\mu$ L

### Analyte:

|                                   |               |
|-----------------------------------|---------------|
| 1. DNPH-Formaldehyde              | 150 $\mu$ g/L |
| 2. DNPH-Acetaldehyde              | 150 $\mu$ g/L |
| 3. DNPH-Acetone                   | 150 $\mu$ g/L |
| 4. DNPH-Acrolein                  | 150 $\mu$ g/L |
| 5. DNPH-Propionaldehyde           | 150 $\mu$ g/L |
| 6. DNPH-Crotonaldehyde            | 150 $\mu$ g/L |
| 7. DNPH-Methylethylketone         | 150 $\mu$ g/L |
| 8. DNPH-Methacrolein              | 150 $\mu$ g/L |
| 9. DNPH- <i>n</i> -Butyraldehyde  | 150 $\mu$ g/L |
| 10. DNPH-Benzaldehyde             | 150 $\mu$ g/L |
| 11. DNPH- <i>n</i> -Valeraldehyde | 150 $\mu$ g/L |
| 12. DNPH- <i>m</i> -Tolualdehyde  | 150 $\mu$ g/L |
| 13. DNPH-Hexanal                  | 150 $\mu$ g/L |