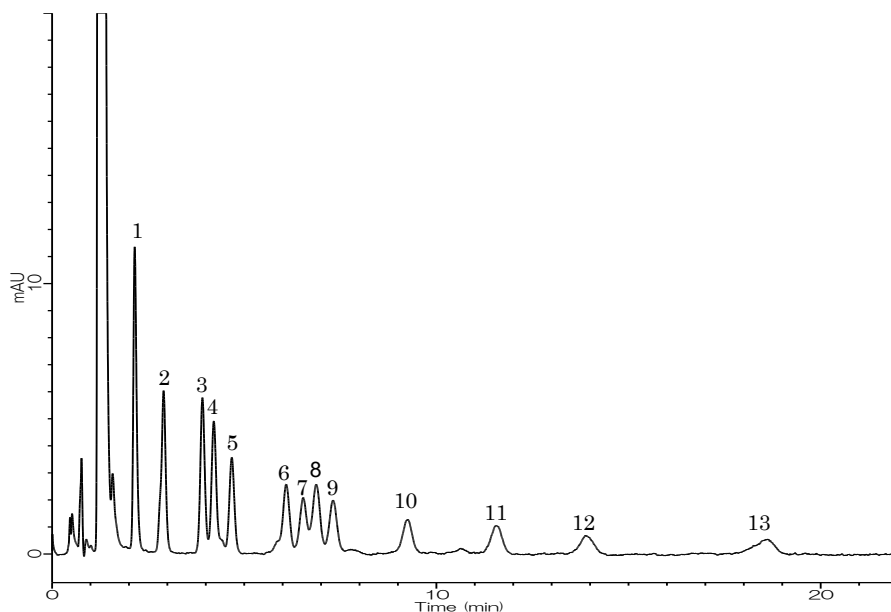


Analysis of 13 kinds of Aldehydes (Detected by Pre-Column Method with DNPH)



Conditions

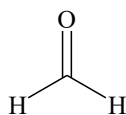
System : GL-7400 HPLC system
Column : Inertsil ODS-SP (3 μ m, 75 x 3.0 mm I.D)
Column Cat. No. : 5020-02823
Eluent : A) CH₃CN
 B) H₂O
 C) THF
 A/B/C = 33/57/10, v/v/v
Flow Rate : 0.8 mL/min
Col. Temp. : 50 °C
Detection : UV 360 nm (GL-7450 UV Detector)
Injection Vol. : 10 μ L
Sample : Aldehydes

Analyte:

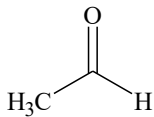
1. Formaldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
2. Acetaldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
3. Acetone [Deriv.]	(150 mg/L in CH ₃ CN)
4. Acrolein [Deriv.]	(150 mg/L in CH ₃ CN)
5. Propionaldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
6. Crotonaldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
7. Methyl ethyl ketone [Deriv.]	(150 mg/L in CH ₃ CN)
8. Methacrolein [Deriv.]	(150 mg/L in CH ₃ CN)
9. n-Butyraldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
10. Benzaldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
11. n-Valeraldehyde [Deriv.]	(150 mg/L in CH ₃ CN)
12. m-Tolualdehyde [Deriv.]	(150 mg/L in CH ₃ CN)
13. Hexanal [Deriv.]	(150 mg/L in CH ₃ CN)

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

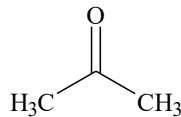
Chemical Structure



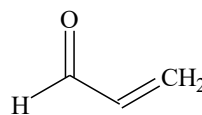
1. Formaldehyde



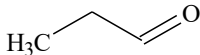
2. Acetaldehyde



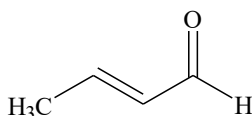
3. Acetone



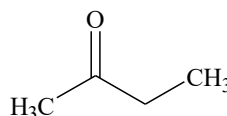
4. Acrolein



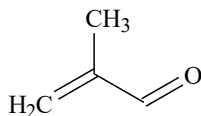
5. Propionaldehyde



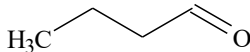
6. Crotonaldehyde



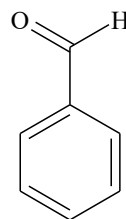
7. Methyl ethyl ketone



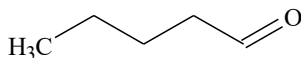
8. Methacrolein



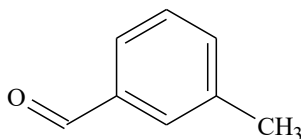
9. n-Butyraldehyde



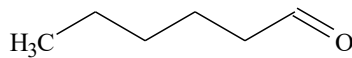
10. Benzaldehyde



11. n-Valeraldehyde



12. m-Tolualdehyde



13. Hexanal