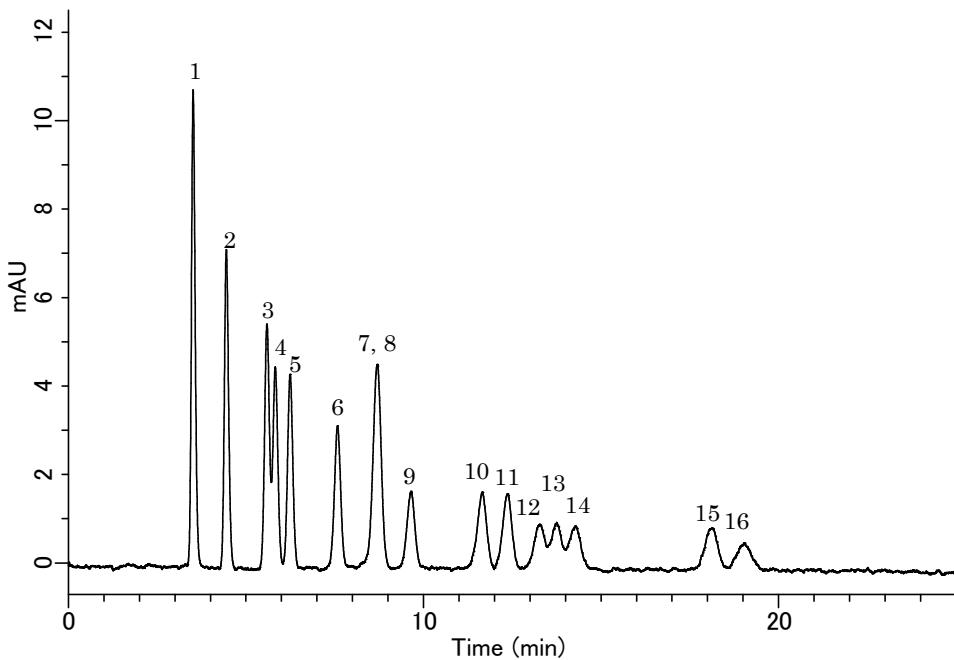


InertSearch™ for LC

Inertsil® Applications

Analysis of 16 kinds of Aldehydes (Detected by Pre-Column Method with DNPH)

Data No. LA594-0696



Conditions

System	: GL-7400 HPLC system
Column	: Inertsil ODS-P (5 µm, 250 x 4.6 mm I.D.)
Column Cat. No.	: 5020-02002
Eluent	: A) CH ₃ CN B) H ₂ O A/B = 60/40, v/v
Flow Rate	: 1.5 mL/min
Col. Temp.	: 45 °C
Detection	: UV 360 nm (GL-7450 UV Detector)
Injection Vol.	: 10 µL
Sample	: Aldehydes

Analyte:

1. Formaldehyde [Deriv.] (200 mg/L in CH₃CN)
2. Acetaldehyde [Deriv.] (200 mg/L in CH₃CN)
3. Acetone [Deriv.] (200 mg/L in CH₃CN)
4. Acrolein [Deriv.] (200 mg/L in CH₃CN)
5. Propionaldehyde [Deriv.] (200 mg/L in CH₃CN)
6. Crotonaldehyde [Deriv.] (200 mg/L in CH₃CN)
7. iso-Butyraldehyde [Deriv.] (200 mg/L in CH₃CN)
8. n-Butyraldehyde [Deriv.] (200 mg/L in CH₃CN)
9. Benzaldehyde [Deriv.] (200 mg/L in CH₃CN)
10. iso-Valeraldehyde [Deriv.] (200 mg/L in CH₃CN)
11. n-Valeraldehyde [Deriv.] (200 mg/L in CH₃CN)
12. o-Tolualdehyde [Deriv.] (200 mg/L in CH₃CN)
13. m-Tolualdehyd [Deriv.] (200 mg/L in CH₃CN)
14. p-Tolualdehyde [Deriv.] (200 mg/L in CH₃CN)
15. Hexanal [Deriv.] (200 mg/L in CH₃CN)
16. 2,5-dimethylbenzaldehyde [Deriv.] (200 mg/L in CH₃CN)

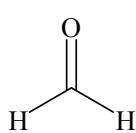
InertSearch™ for LC

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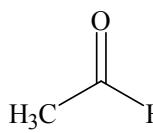
Analysis of 16 kinds of Aldehydes (Detected by Pre-Column Method with DNPH)

Data No. LA594-0696

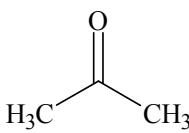
Chemical Structure



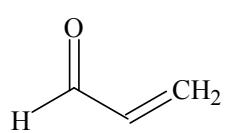
1.Formaldehyde



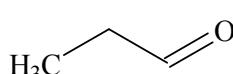
2.Acetaldehyde



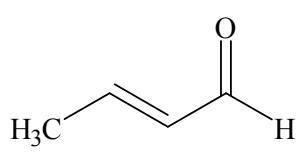
3.Acetone



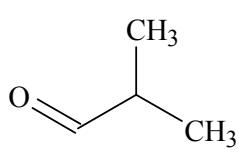
4.Acrolein



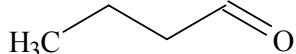
5.Propionaldehyde



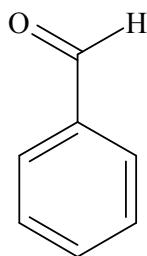
6.Crotonaldehyde



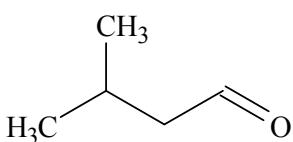
7.iso-Butyraldehyde



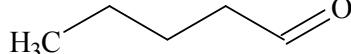
8.n-Butyraldehyde



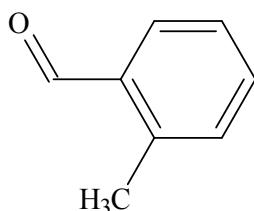
9.Benzaldehyde



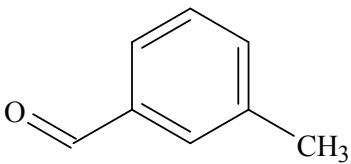
10.iso-Valeraldehyde



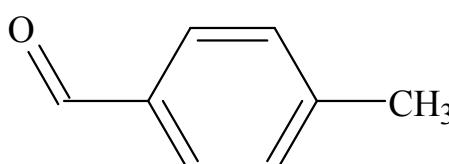
11.n-Valeraldehyde



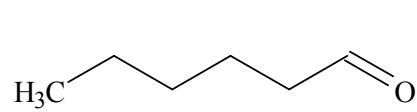
12.o-Tolualdehyde



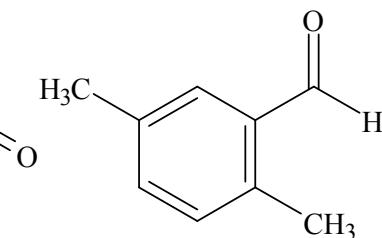
13.m-Tolualdehyd



14.p-Tolualdehyde



15.Hexanal



16.2,5-dimethylbenzaldehyde

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.