

Determination of Aldehydes and Ketones as DNPH derivatives

Method VEV0009J

HPLC RP Mode

Sample Collection on a DNPH coated solid phase cartridge, elution with methanol

Column: Eurospher 100-5 C18, 250 x 4.0 mm ID

Order No. 25DE181ESJ

Phase: Eurospher 100-5 C18

Conditions: Eluent: Methanol / Water (84:16)
Gradient: isocratic
Flow rate: 0.7 ml/min
Temperature: 30 °C
Volume: 10 µl

Detection: UV at 365 nm

Substances: DNPH derivatives of Formaldehyde, Acetaldehyde, Acrolein, Propionaldehyde, Acetone, Butyraldehyde, Methacrolein, Methyl ethyl ketone, Pentanone, Cyclohexanone

Keywords: Aldehydes, Carbonyl compounds, Ketones, DNPH-Derivatives

Chromatogram:

1. DNPH
2. Formaldehyde
3. Acetaldehyde
4. Acrolein
5. Propionaldehyde
6. Acetone
7. n-Butyraldehyde and Methacrolein
8. Methyl ethyl ketone
9. 2-Pentanone and Cyclohexanone

