

Determination of Ketones as DNPH Derivates

Method
HPLC

VEV0018J
RP Mode

Column: ProntoSIL 120-3 C18 AQ, 250 x 3.0 mm ID

Order No. 25CF184PSG

Phase: ProntoSIL 120-3 C18 AQ

Conditions: Eluent: A: Water
B: Acetonitrile
Gradient: 0 – 18 min 10 – 100% B
Flow rate: 0.35 ml/min
Temperature: 30 °C
Volume: 2 µl

Detection: UV at 270 nm

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

Keywords: Aldehydes, Ketones , Carbonyl compounds, VOC's , Air pollutants

Chromatogram:

1. Tetramethylketone
2. 2-Pentanone
3. 2-Hexanone
4. 2-Heptanone
5. 2-Octanone
6. 2-Nonanone
7. 2-Decanone
8. 2-Undecanone
9. 2-Dodecanone
10. 2-Tridecanone
11. 2-Hexadecanone

