

HPLC Application

ID No.: 14494

EPA Method 8315A, Carbonyl Compounds

Column: Synergi[™] 4 μ m Hydro-RP 80 \AA , LC Column 250 x 4.6 mm, Ea

Dimensions: 250 x 4.6 mm ID

Order No: 00G-4375-E0

Elution Type: Gradient

Eluent A: Water

Eluent B: Acetonitrile

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
| | 1 | 0 | 30 | 70 |
| | 2 | 20 | 30 | 70 |
| | 3 | 35 | 0 | 100 |
| | 4 | 50 | 0 | 100 |



Flow Rate: 1.2 mL/min

Col. Temp.: ambient

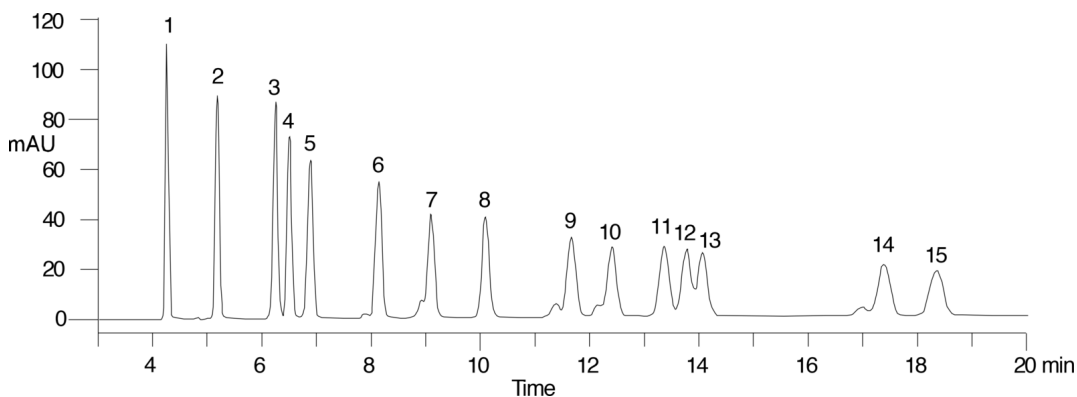
Detection: UV-Vis Abs.-Variable Wave.(UV) @ 360 nm (ambient)

Detector Info: DNPH derivatives

Analyst Note: SecurityGuard[™] Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, AQ C18 4 x 3.0mm, 10/Pk Part No.: AJ0-7511

- Holder Part No.: KJ0-4282



EPA Method 8315A, Carbonyl Compounds

ANALYTES:

- 1** Formaldehyde
- 2** Acetaldehyde
- 3** Acrolein
- 4** Acetone
- 5** Propanal
- 6** Crotonaldehyde
- 7** Butanal
- 8** Benzaldehyde
- 9** Isovaleraldehyde
- 10** Pentanal
- 11** o-Tolualdehyde
- 12** m-Tolualdehyde
- 13** p-Tolualdehyde
- 14** Hexanal
- 15** 2,4-Dimethylbenzaldehyde

