



Aldehydes/Ketones DNPB Standard

For US EPA Methods TO-11A and 8315

Aldehyde-Ketone-DNPB TO-11A Calibration Mix (15 components)

- | | |
|-------------------------------|-----------------------|
| acetaldehyde-DNPB | hexanaldehyde-DNPB |
| acetone-DNPB | isovaleraldehyde-DNPB |
| acrolein-DNPB | propionaldehyde-DNPB |
| benzaldehyde-DNPB | m-tolualdehyde-DNPB |
| n-butyraldehyde-DNPB | o-tolualdehyde-DNPB |
| crotonaldehyde-DNPB | p-tolualdehyde-DNPB |
| 2,5-dimethylbenzaldehyde-DNPB | valeraldehyde-DNPB |
| formaldehyde-DNPB | |

15µg/mL* each in acetonitrile, 1mL/ampul

| Each |
|-------|
| 31808 |

Formaldehyde-DNPB Mix

formaldehyde-DNPB
500µg/mL in acetonitrile, 1mL/ampul

| Each | 5-pk. |
|-------|-----------|
| 31837 | 31837-510 |

HPLC Columns

Ultra C18 5µm Column
cat.#: 9174565
150 x 4.6mm



For a complete listing of Restek HPLC columns, packings, and accessories, request the 2004 Restek Chromatography Products catalog (lit. cat.# 59854).

This catalog details our extensive product line and includes hundreds of chromatograms.

Additional Information

Formaldehyde and Other Aldehydes
Committee on Aldehydes, Board of Toxicology and Environmental Hazards, National Research Council, National Academy Press, Washington, DC, 1981.



- Convenient 15µg/mL concentration as aldehyde/ketone, similar to the concentration of interest in most ambient air work.
- Certificate of Analysis lists both aldehyde/ketone and -DNPB derivative concentrations.
- Fast analysis using a Restek Ultra C18 HPLC column .

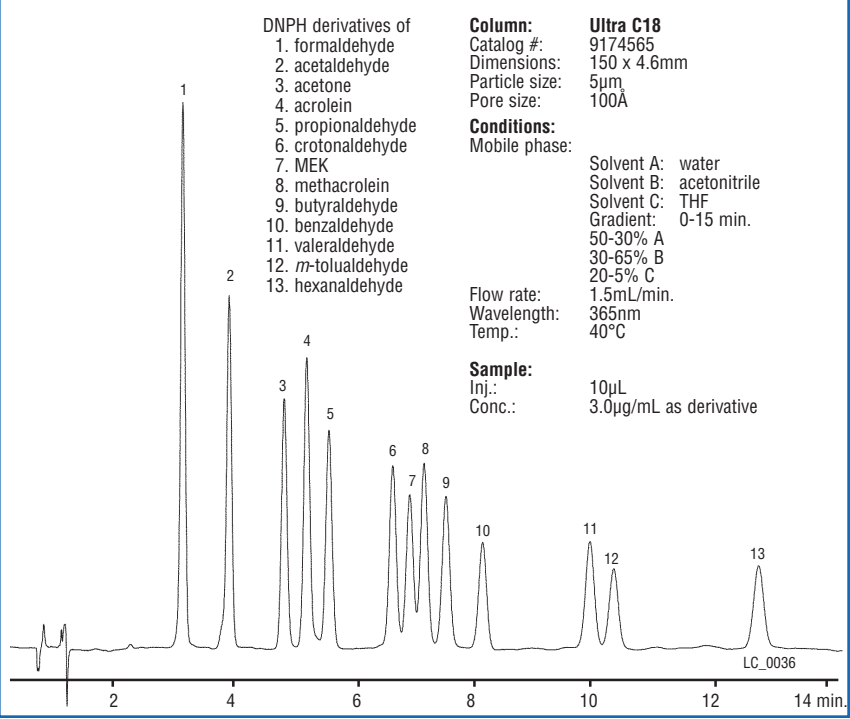
Carbonyl compounds, including low molecular weight aldehydes and ketones, are receiving increased attention by the regulatory community.

Formaldehyde is the target compound for US EPA Compendium Method TO-11A and Method 8315, but at least 14 other carbonyl compounds also can be detected and quantified. Method TO-11A modifies the sampling procedures outlined in earlier Method TO-5; the newer method is based on the specific reaction between carbonyl compounds and the 2,4-dinitrophenylhydrazine (DNPH) coating on a silica gel adsorbent (packed in cartridges), in the presence of a strong acid catalyst. The reaction produces stable, colored hydrazone derivatives.

To meet the needs of analysts monitoring these compounds, Restek offers a new 15-component aldehyde standard for US EPA Compendium Method TO-11A and Method 8315. The concentration of the mix components, 15µg/mL each, is similar to the concentration of interest in most ambient air work. For convenience, our Certificate of Analysis lists concentrations for both the aldehydes/ketones and the DNPB derivatives.

A 150 x 4.6 mm Ultra C18 HPLC column (cat.# 9174565) is optimal for fast, reliable analyses of the derivatives of formaldehyde, other aldehydes, and ketones.

Fast, reliable analyses of aldehydes and ketones on Restek's Ultra C18 HPLC column.



Aldehydes/Ketones DNPH Standard

**FAST
FACTS**

At-a-Glance
Product
Information
from Restek

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technical literature source!*



lit. cat.# 59741

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Custom Reference Materials Request Form

Domestic Customers

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email: standards@restekcorp.com

International Customers

**Contact Your Local
Restek Representative.**

Name: _____ **Date:** _____

Company/Location: _____

Phone #: _____ **FAX #:** _____

E-mail: _____

Take these eight steps to create the right solution:

1. Mixture Description: _____

2. Solvent: _____

3. Number of Components: _____

4. Volume (select): 1mL, 2mL, 5mL, 10mL or other _____ mL

5. Quantity: Number of Units _____

6. Select testing and documentation that best meets your requirements:

- Gravimetric Documentation: Lot Sheet with balance printout attached.
- Qualitative Documentation: Certificate of Composition, Chromatogram, and Gravimetric Documentation.
- Quantitative Documentation: Certificate of Analysis and Data Pack.

| 7. Compound(s): (list or attach sheet; include CAS number) | Concentration: |
|--|----------------|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |
| 11. | |
| 12. | |

8. Concentration Units

mg/mL µg/mL ng/mL vol./vol.% wt./wt.% Other _____

ALL mixtures are produced in accordance with our ISO 9001 registration.
Analytical balances are calibrated daily at seven mass levels using NIST traceable weights.
ALL raw materials used are a minimum of 97% pure unless otherwise specified.

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