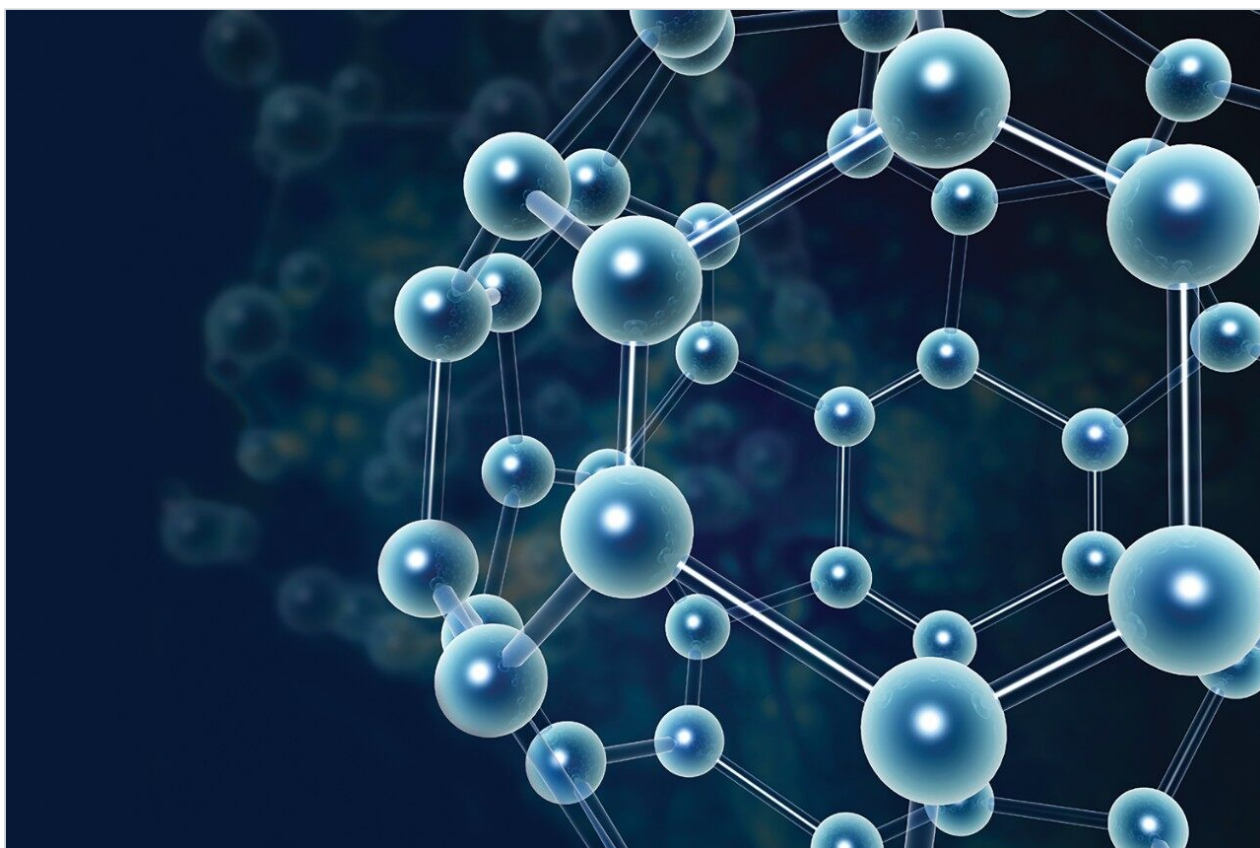


Application Note

DNPH Derivatives - pH 2.45

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

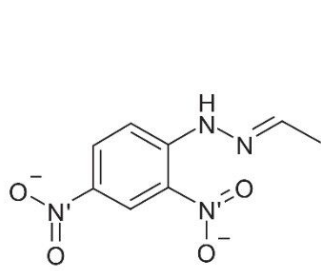
Abstract

This application brief demonstrates analysis of DNPH derivatives.

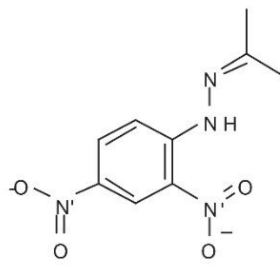
Introduction

The compounds used in this study are –

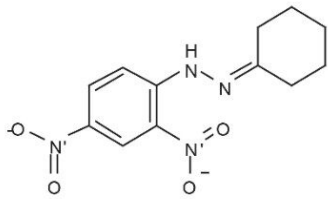
1. Formaldehyde-DNPH
2. Acetaldehyde-DNPH
3. Acetone-DNPH
4. Crotonaldehyde-DNPH
5. Cyclohexanone-DNPH



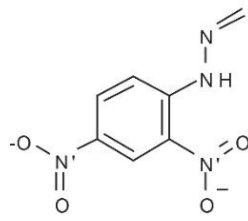
Acetaldehyde-DNPH



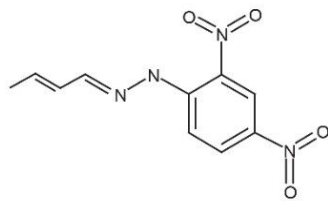
Acetone-DNPH



Cyclohexanone-DNPH



Formaldehyde-DNPH



Crotonaldehyde-DNPH

Experimental

Conditions

Column:

Xterra Phenyl, 4.6 x 150 mm, 5 μ m

Part number: 186001146

Mobile phase A: H₂O

Mobile phase B: ACN

Mobile phase C: 50 mM HCOOH, pH 2.45

Flow rate: 1.4 mL/min

Injection volume: 10 µL

Temperature: 30 °C

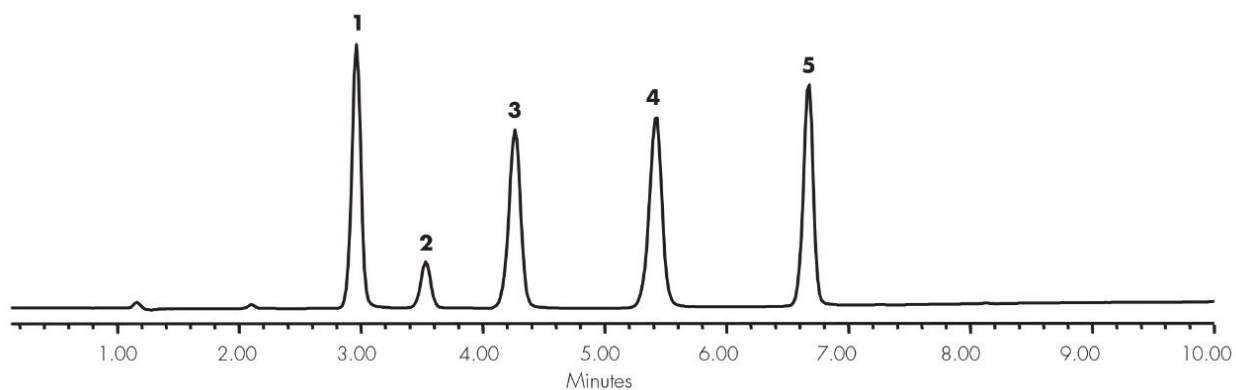
Detection: UV @ 254 nm

Instrument: Alliance 2695, 2996 PDA

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	40	50	10
4.0	40	50	10
10.0	0	90	10

Results and Discussion



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Alliance HPLC System <<https://www.waters.com/534293>>

WA20738.043, June 2002