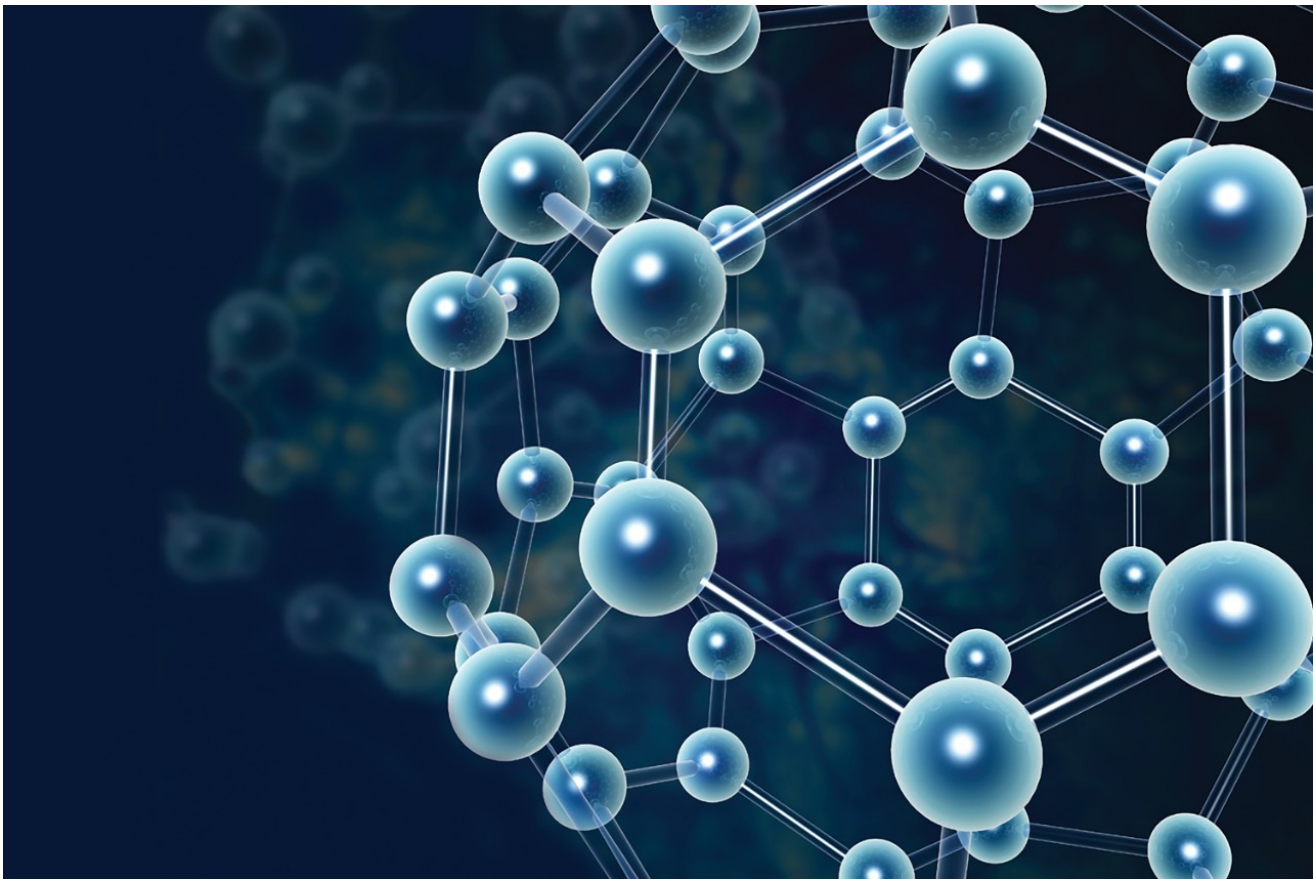
Waters™

應用手冊

DNPH Derivatives - pH 2.45

Waters Corporation



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

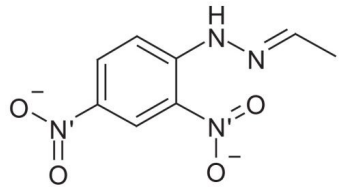
Abstract

This application brief demonstrates analysis of DNPH derivatives.

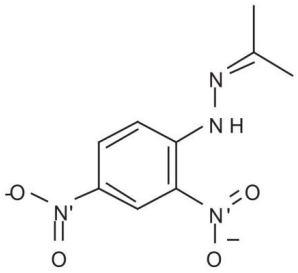
Introduction

The compounds used in this study are –

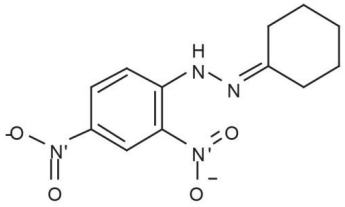
1. Formaldehyde-DNPH
2. Acetaldehyde-DNPH
3. Acetone-DNPH
4. Crotonaldehyde-DNPH
5. Cyclohexanone-DNPH



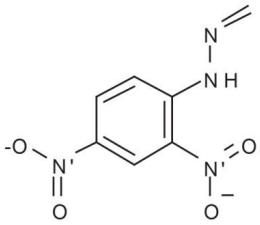
Acetaldehyde-DNPH



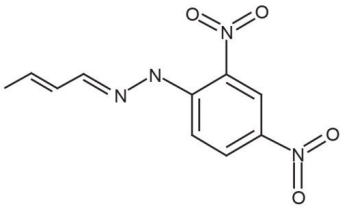
Acetone-DNPH



Cyclohexanone-DNPH



Formaldehyde-DNPH



Crotonaldehyde-DNPH

Experimental

Conditions

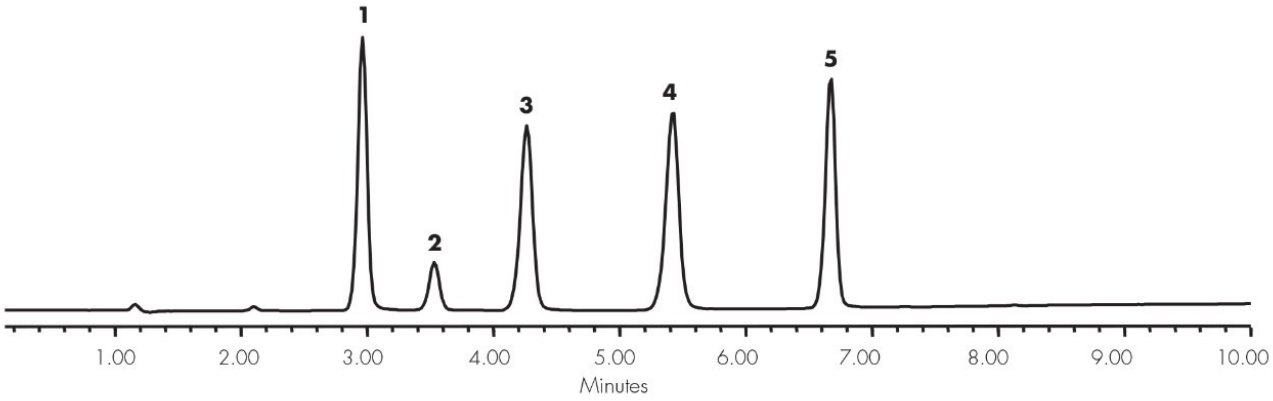
Column:	Xterra Phenyl, 4.6 x 150 mm, 5 µm

Part number:	186001146
Mobile phase A:	H_2O
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



Featured Products

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

WA20738.043, June 2002