

## Vitamins- Fat-Soluble

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Waters Corporation



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

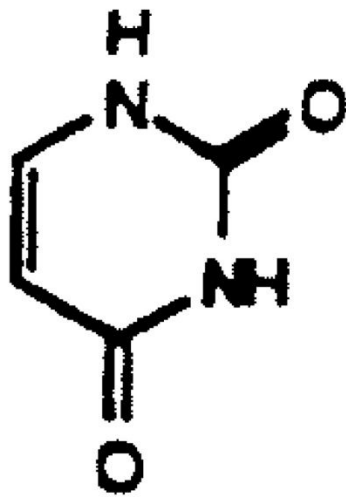
### Abstract

This application brief demonstrates analysis of fat soluble vitamins.

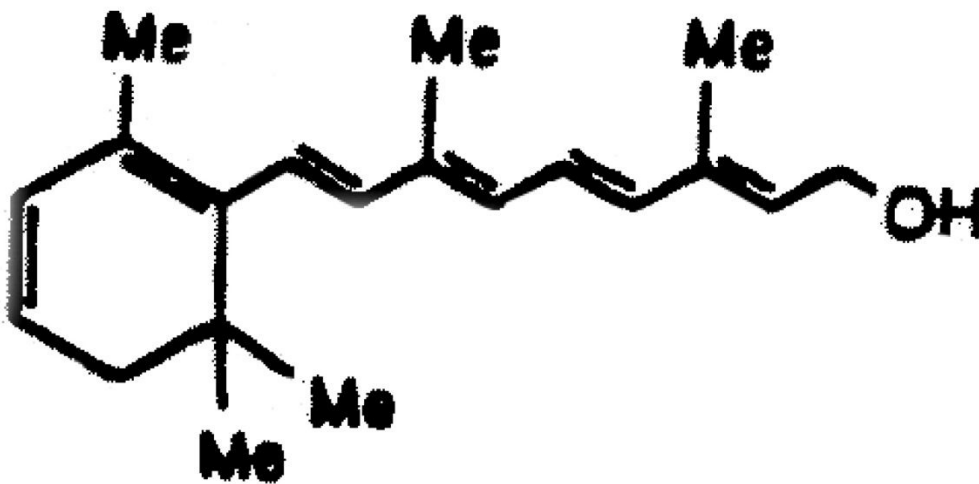
## Introduction

The compounds used in this study are –

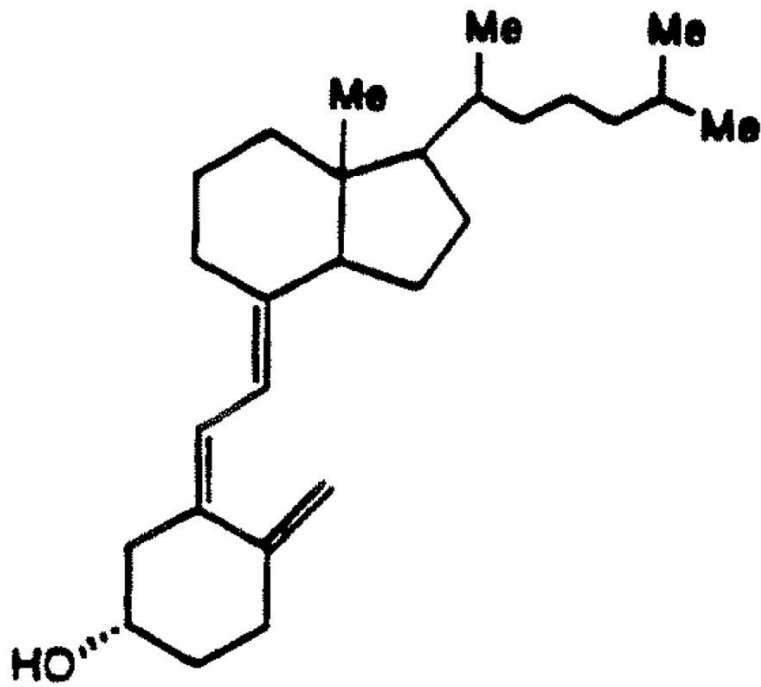
Compounds	USP Tailing Factors
Trans-Retinol (Vitamin A)	1.33
Cholecalciferol (Vitamin D3)	1.2
Alpha-Tocopherol (Vitamin E)	1.16



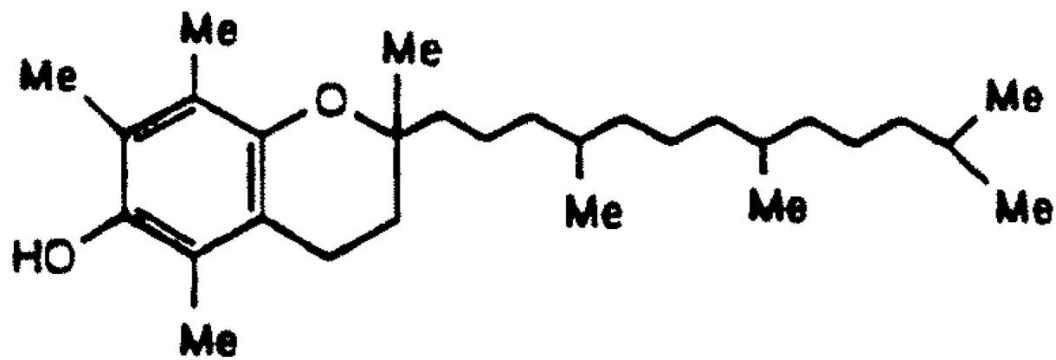
**Vo. Uracil**



**1. Trans-Retinol (Vitamin A)**



2. Cholecalciferol (Vitamin D3)



3. Alpha-Tocopherol (Vitamin E)

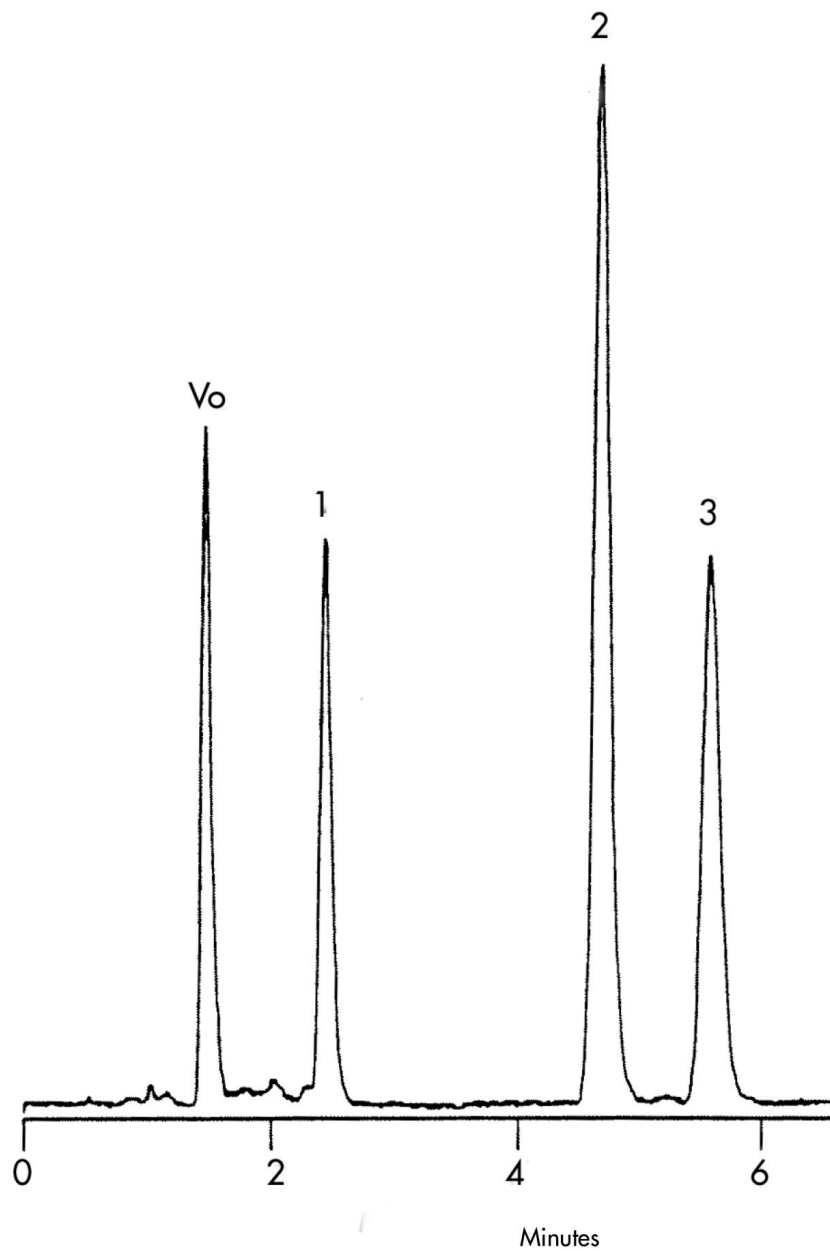
Experimental

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## HPLC Method

Column:	Symmetry C <sub>8</sub> , 3.9 x 150 mm, 5 µm
Guard Column:	Sentry Guard Column 3.9 x 20mm, 5 µm
Part numbers:	Column - WAT046970, Guard - WAT054250
Mobile phase:	Methanol/acetonitrile/water 45:45:10
Flow rate:	1.0 mL/min
Injection volume:	10 µL of 25 µg/mL sample
Detection:	UV @ 280 nm

## Results and Discussion



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WA31763.179, June 2003



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