

Analysis of Lipid Soluble Antioxidants Using Atlantis T3 Columns

Waters Corporation



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

Abstract

This application brief demonstrates analysis of lipid soluble antioxidants using Atlantis T3 Columns.

Introduction

The compounds used in this study are -

1. Propyl gallate
2. 2,4,5-Trihydroxybutyrophenone
3. Tert-butylhydroquinone
4. Butylated hydroxyanisole
5. 2,6-Di-tert-butyl-4-hydroxymethylphenol
6. Octyl gallate
7. Butylated hydroxytoluene
8. Lauryl gallate

Experimental

Test Conditions

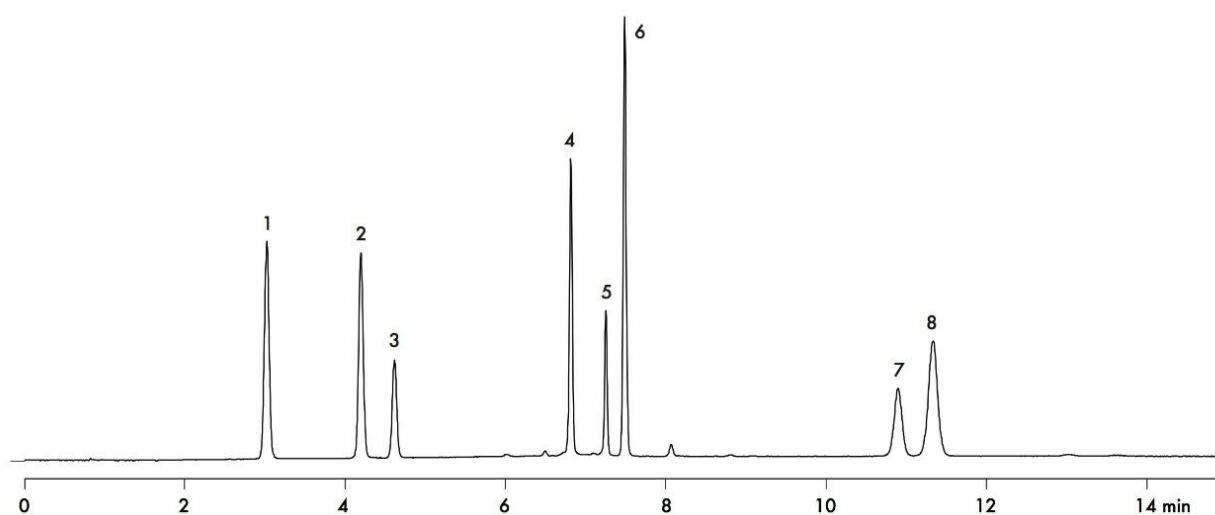
Column:	Atlantis T3, 4.6 x 150 mm, 5 μ m
Part number:	186003747
Mobile phase A:	H ₂ O
Mobile phase B:	ACN
Mobile phase C:	1% HCOOH, pH 2.3
Mobile phase D:	MeOH
Flow rate:	2.0 mL/min

Injection volume	10 µL
Column temperature:	30 °C
Detection:	UV @ 280 nm
Instrument:	Waters Alliance 2695

Gradient

Time(min)	Profile			
	%A	%B	%C	%D
0.00	55	17.5	10	17.5
4.00	35	27.5	10	27.5
6.00	9	40	10	41
15.00	9	40	10	41
16.00	55	17.5	10	17.5
20.00	55	17.5	10	17.5

Results and Discussion



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