

## ACQUITY UPLC HILIC Isocratic Separation of Isoascorbic acid and ascorbic acid

---

Waters Corporation

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

---

### Abstract

This application brief demonstrates the separation of isoascorbic acid and ascorbic acid.

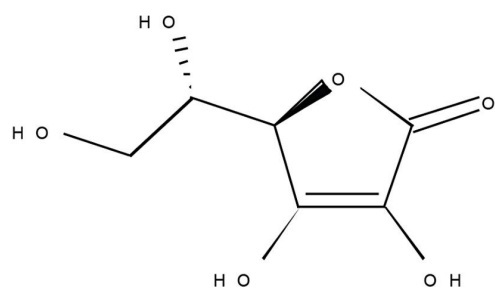
---

### Introduction

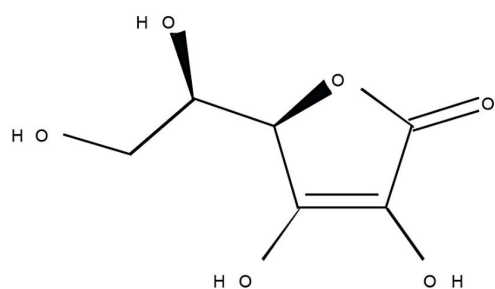
Compounds which are studied in this application brief are:

1. Isoascorbic acid
2. Ascorbic acid

## Structures



**Ascorbic acid**



**Isoascorbic acid**

---

## Experimental

### Test Conditions

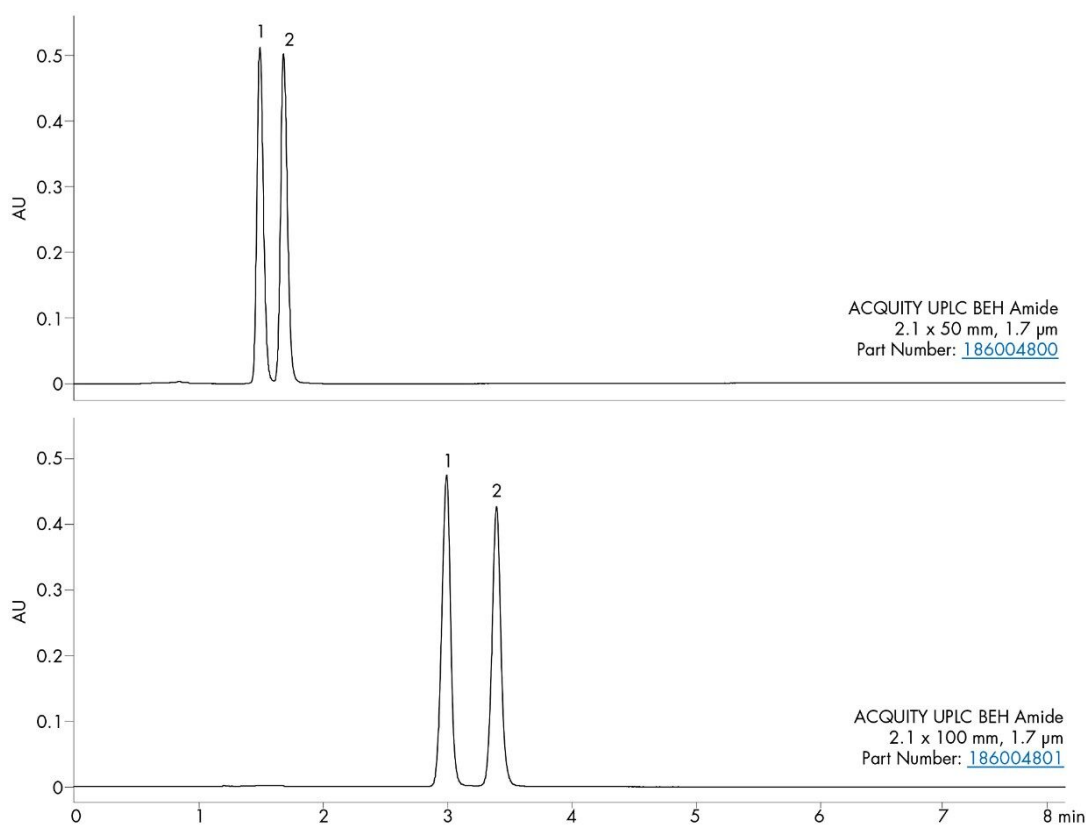
### Chromatographic Conditions

Column:	ACQUITY UPLC BEH Amide,
Isocratic Mobile Phase:	80/20 MeCN/H <sub>2</sub> O with 10 mM KH <sub>2</sub> PO <sub>4</sub> , pH 4.6
Flow Rate:	0.2 mL/min
Injection Volume:	5.0 µL (PLNO)

Sample Concentration:	30 µg/mL each
Sample Diluent:	75/25 MeCN/MeOH with 0.2% HCOOH
Column Temperature:	25 °C
Weak Needle Wash:	95/5 MeCN/H <sub>2</sub> O
Detection:	UV @ 260nm
Sampling Rate:	20 points/sec
Filter Time Constant:	0.2
Instrument:	Waters ACQUITY UPLC with ACQUITY UPLC PDA Detector

---

## Results and Discussion



---

## Featured Products

ACQUITY UPLC System <<https://www.waters.com/514207>>

ACQUITY UPLC PDA Detector <<https://www.waters.com/514225>>

WA60102, June 2009

©2019 Waters Corporation. All Rights Reserved.