

应用纪要

## ACQUITY UPLC Analysis of Acrylamide, Methacrylic Acid, and Methacrylamide

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Waters Corporation

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

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### Abstract

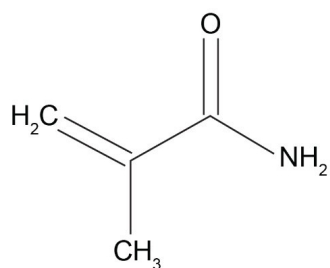
This application brief highlights the analysis of acrylamide, methacrylic acid and methacrylamide on ACQUITY UPLC BEH Amide Columns.

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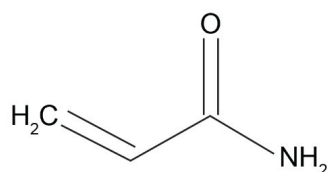
### Introduction

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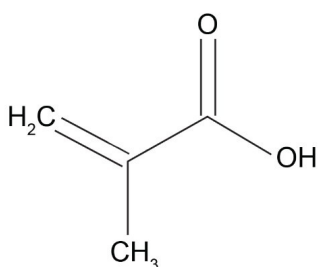
## Structures



**Methacrylamide**



**Acrylamide**



**Methacrylic acid**

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## Experimental

### Test Conditions

Columns:	ACQUITY UPLC BEH Amide, 2.1 x 150 mm, 1.7 $\mu$ m
Part Number:	186004802
Isocratic Mobile Phase:	95/2.5/2.5 MeCN/IPA/H <sub>2</sub> O with 5 mM CH <sub>3</sub> COONH <sub>4</sub> and 0.02% NH <sub>4</sub> OH, pH 9.0

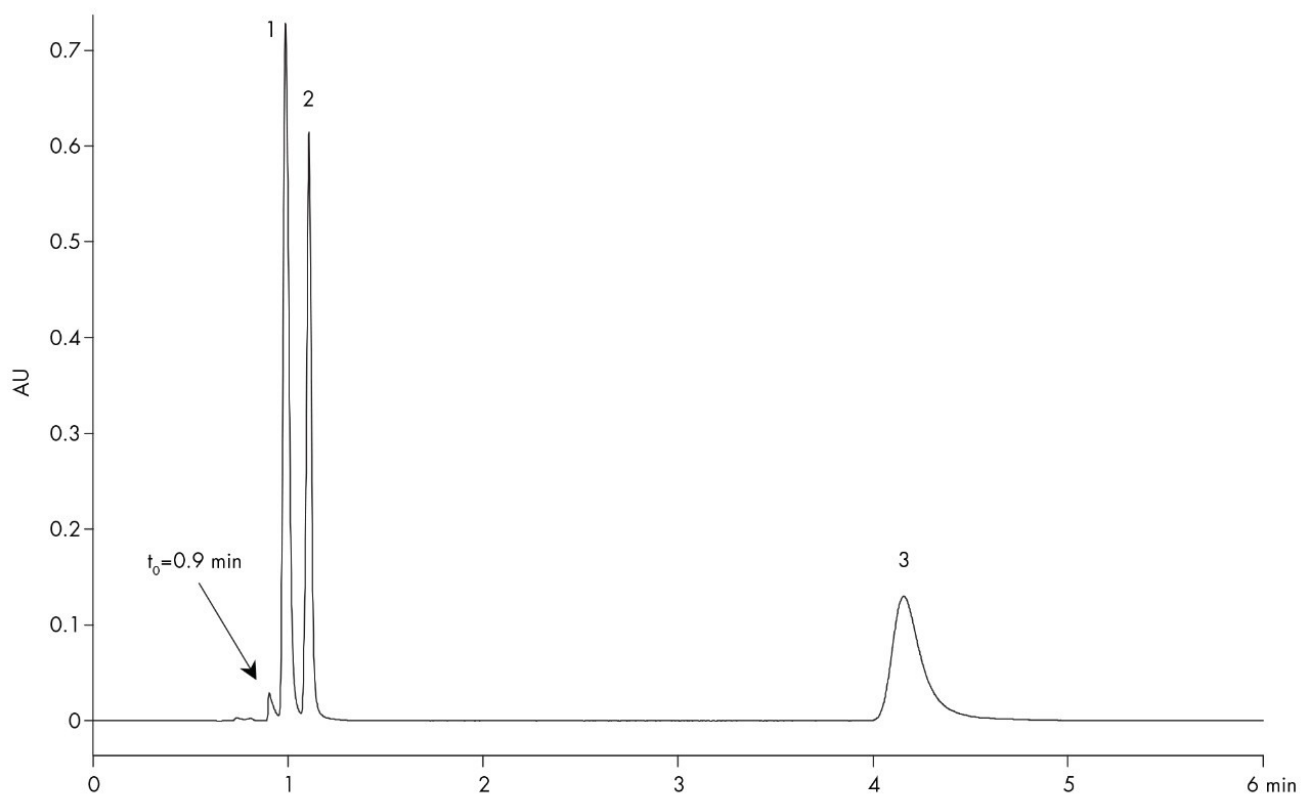
Flow Rate:	0.5 mL/min
Injection Volume:	5.0 $\mu$ L (PLNO)
Sample Concentration:	30 $\mu$ g/mL each
Sample Diluent:	75/25 MeCN/MeOH with 0.2% HCOOH
Column Temperature:	25 $^{\circ}$ C
Weak Needle Wash:	95/5 MeCN/H <sub>2</sub> O
Detection:	UV @ 210 nm
Sampling Rate:	20 points/sec
Filter Time Constant:	0.2
Instrument:	Waters ACQUITY UPLC with ACQUITY UPLC PDA Detector

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## Results and Discussion

The compounds analysed in this study are:

1. Methacrylamide
2. Acrylamide
3. Methacrylic acid



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## Featured Products

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

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