

ACQUITY UPLC Analysis of Acrylamide, Methacrylic Acid, and Methacrylamide

Waters Corporation

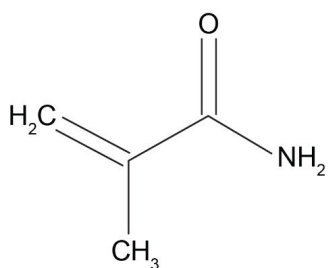
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

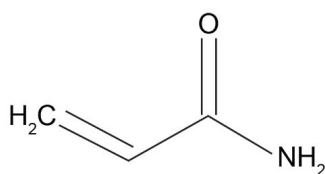
This application brief highlights the analysis of acrylamide, methacrylic acid and methacrylamide on ACQUITY UPLC BEH Amide Columns.

Introduction

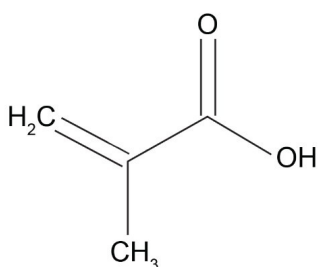
Structures



Methacrylamide



Acrylamide



Methacrylic acid

Experimental

Test Conditions

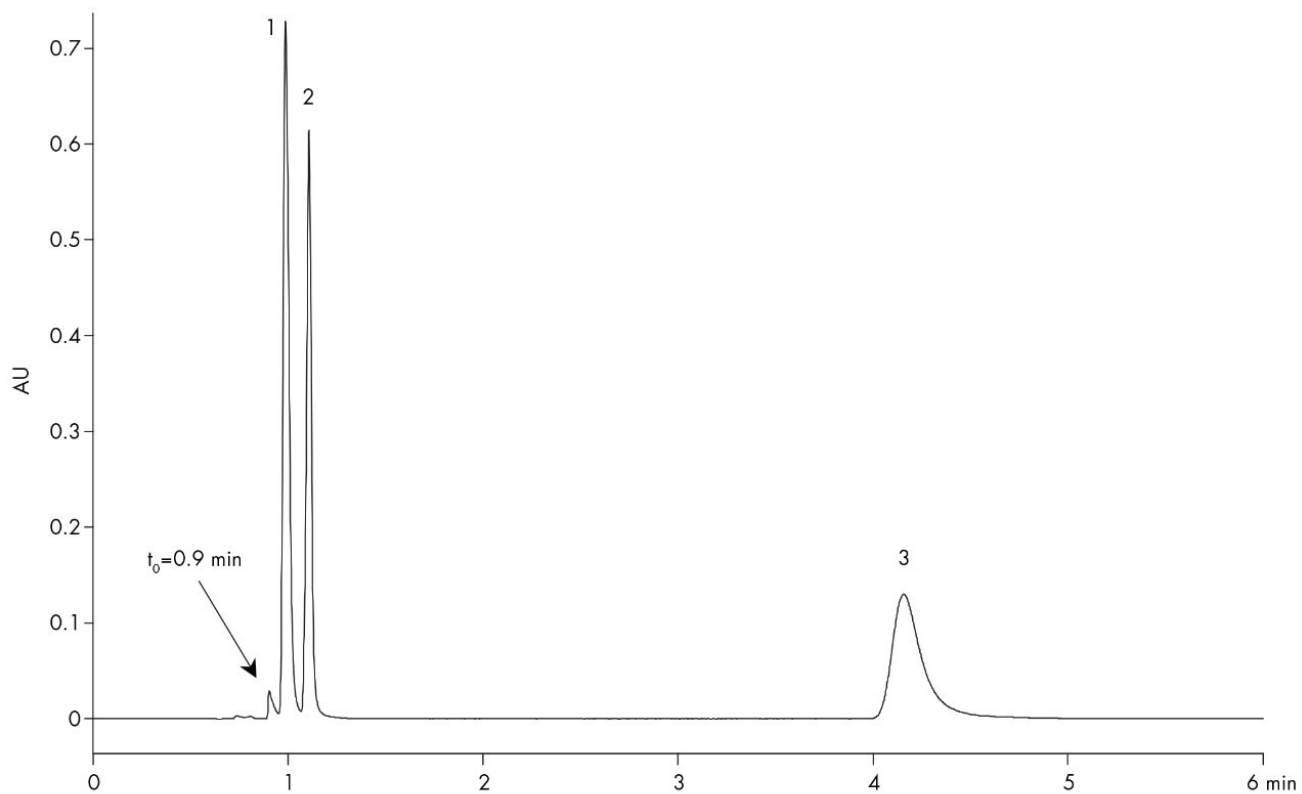
Columns:	ACQUITY UPLC BEH Amide, 2.1 x 150 mm, 1.7 μm
Part Number:	186004802
Isocratic Mobile Phase:	95/2.5/2.5 MeCN/IPA/H ₂ O with 5 mM CH ₃ COONH ₄ and 0.02% NH ₄ OH, pH 9.0
Flow Rate:	0.5 mL/min

Injection Volume:	5.0 μ L (PLNO)
Sample Concentration:	30 μ 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 ₂ O
Detection:	UV @ 210 nm
Sampling Rate:	20 points/sec
Filter Time Constant:	0.2
Instrument:	Waters ACQUITY UPLC with ACQUITY UPLC PDA Detector

Results and Discussion

The compounds analysed in this study are:

1. Methacrylamide
2. Acrylamide
3. Methacrylic acid



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[ACQUITY UPLC PDA Detector <https://www.waters.com/514225>](https://www.waters.com/514225)

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