Waters™

Application Note

ACQUITY UPLC Analysis of Acrylamide, Methacrylic Acid, and Methacrylamide

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vvalcis	CUID	oration

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

$$H_2C$$
 O
 NH_2
 CH_3
 NH_2

Methacrylamide

Acrylamide

$$H_2C$$
 OH CH_3

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/H₂O with 5 mM CH₃

COONH₄ and 0.02% NH₄OH, pH 9.0

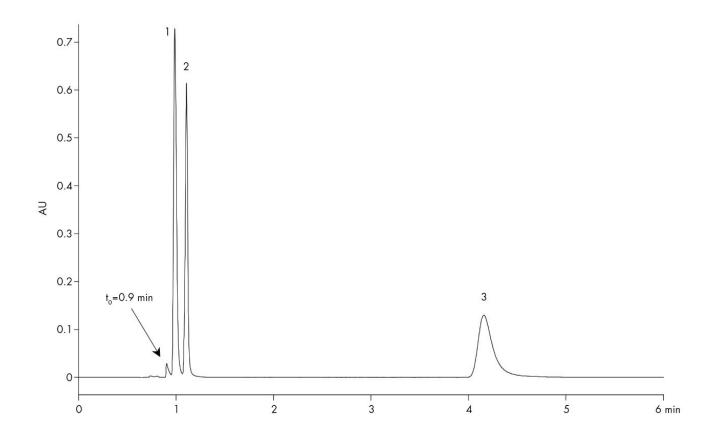
Flow Rate: 0.5 mL/min

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/H₂O 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

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