## Waters™



# Analysis of Food Sugars in Ketchup Using ACQUITY UPLC BEH Amide Columns

**Waters Corporation** 

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

#### **Abstract**

This application brief highlights the analysis of food sugars in ketchup using ACQUITY UPLC BEH Amide Columns.

### Introduction

#### **Structures**

Sucrose

Lactose

p-Toluamide (unretained compound)

## Experimental

## **Chromatographic Conditions**

Column: ACQUITY UPLC BEH Amide 2.1 x 50 mm, 1.7 μm Part Number: 186004800 80/20 acetone/H<sub>2</sub>O with 0.05% triethylamine Mobile Phase A: [TEA] Mobile Phase B: 30/70 acetone/H<sub>2</sub>O with 0.05% triethylamine [TEA] Flow Rate: 0.15 mL/min Flow Profile: 95% A/5% B (77.5% acetone with 0.05% TEA) Injection Volume: 0.7 μL (PLNO) Sample Concentration: Standards at 1 mg/mL each Sample Diluent: 50/50 MeCN/H<sub>2</sub>O 85 °C Column Temperature: Strong Needle Wash: 20/80 MeCN/H<sub>2</sub>O (800 μL) Weak Needle Wash:  $75/25 \text{ MeCN/H}_2\text{O} (500 \mu\text{L})$ Seal Wash: 50/50 MeCN/H<sub>2</sub>O Instrument: Waters ACQUITY UPLC with ELSD

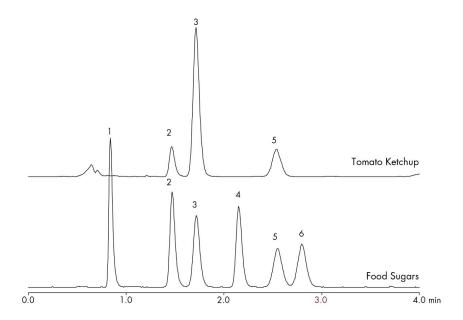
#### **ELSD Conditions**

Gain:	200
Pressure:	40 psi
Drift Tube Temperature:	40 °C
Nebulizer:	Cooling
Data Rate:	10 pps
Filter Time Constant:	Normal

## Results and Discussion

The compounds analysed in this stdy are:

- 1. p-Toluamide
- 2. Fructose
- 3. Glucose
- 4. Sucrose
- 5. Maltose
- 6. Lactose



## **Featured Products**

2424 Evaporative Light Scattering (ELS) Detector <a href="https://www.waters.com/514428">https://www.waters.com/514428</a>

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