

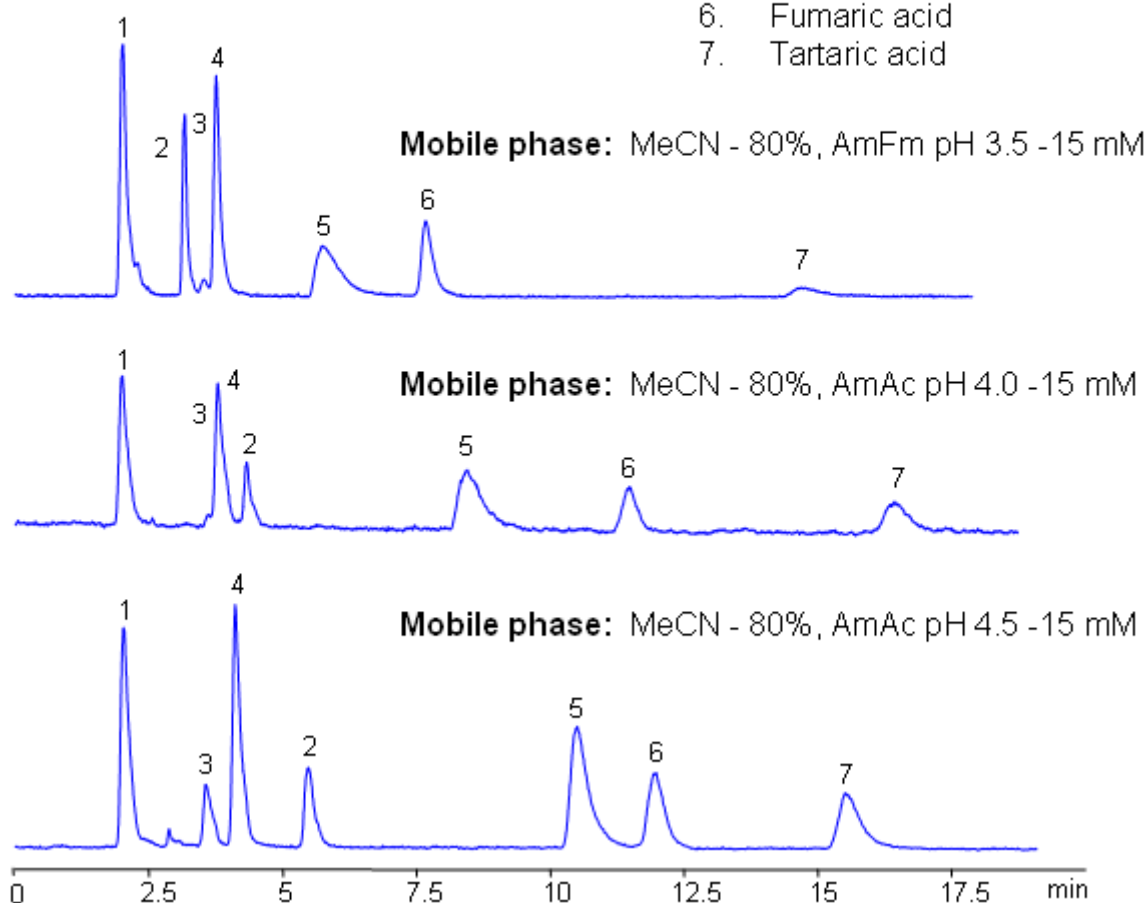
# HILIC Separation of Carboxylic Acids

<https://sielc.com/Application-HILIC-Separation-of-Carboxylic-Acids>

## Chromatogram

**Column:** Obelisc N  
**Size:** 4.6 x 150 mm  
**Flow:** 1.0 mL/min  
**Detection:** ELSD, 45°C

1. Hydroxybenzoic acid
2. Succinic acid
3. Mandelic acid
4. Methylmalonic acid
5. Malic acid
6. Fumaric acid
7. Tartaric acid



## Description

Hydrophilic acids are separated on Obelisc N mixed-mode HILIC column. Seven carboxylic acids are separated based on their polarity and pKa values. Changes in ionization states of acids and stationary phase can be used to control elution order of organic and inorganic acids.