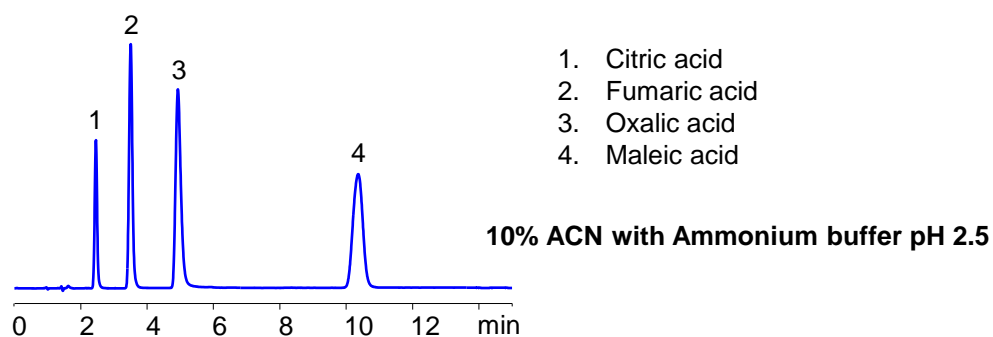
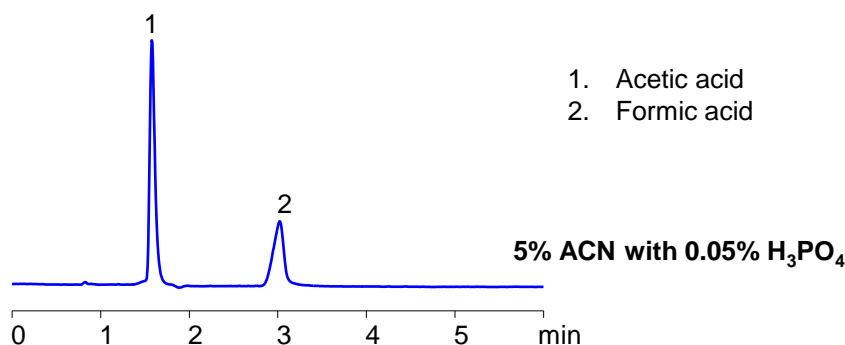


HPLC Analysis of Hydrophilic Mono-, Di- and Tricarboxylic Acids on Amaze HA Column



1. Citric acid
2. Fumaric acid
3. Oxalic acid
4. Maleic acid



1. Acetic acid
2. Formic acid

Column: Amaze HA
Dimensions: 4.6x100 mm, 3 μ m, 100A
Mobile phase: see above
Flow rate: 1 ml/min
Detection: 205 nm

Application Notes

Hydrophilic mono-, di- and tricarboxylic acids (acetic acid, formic acid, citric acid, fumaric acid, Oxalic acid, and maleic acid, etc. are very polar compounds with one or more ionizable groups. Poly-charged hydrophilic acids have more than one pKa and are often hard to analyze with good peak shape due to the various ionization states of these acids. One of the ways is to find the right column. After that the key is to find the correct pH at which hydrophilic acids are separated and eluted with a good peak shape. Amaze HA column allows you to achieve high-efficiency isocratic and gradient robust separations of hydrophilic, hydrophobic neutral, and ionizable compounds. The column can be used for the analysis of other anionic compounds like inorganic and organic acids in combination with UV, ELSD, CAD, and mass spectrometry. Buffers within pH 2-6 can be effectively used to adjust elution patterns of these acids and effectively control peak shape. Learn more at www.helixchrom.com