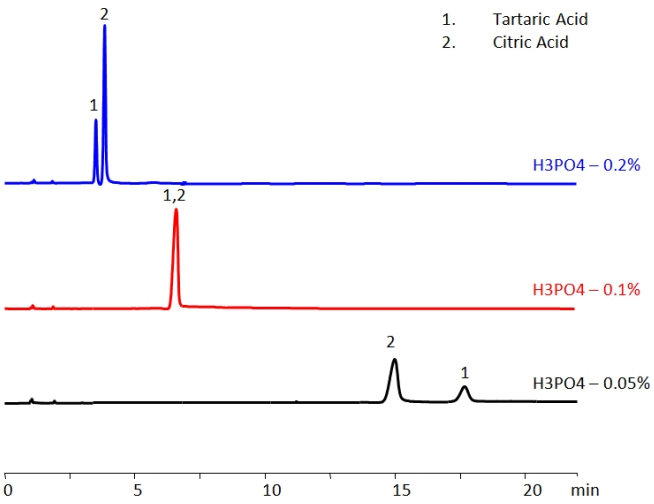
HPLC Separation of Tartaric Acid and Citric Acids on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 3 µm
Mobile phase:	H2O
Buffer:	H3PO4
Flow rate:	1.0 ml/min
Detection:	UV 200

High Performance Liquid Chromatography (HPLC) Method for Analysis of Citric Acid , Tartaric Acid , dl-Tartaric acid .

Tartaric acid is a naturally occurring organic acid that is found in many plants, particularly in grapes and tamarinds. It's known for its sour taste and antioxidant properties. Chemically, tartaric acid is a white, crystalline organic acid. It has the chemical formula C4H6O6 . Tartaric acid has been used in winemaking for centuries because it plays a key role in the fermentation process. It's also used in baking powder, where it serves as a leavening agent. In addition to these culinary uses, tartaric acid is used in the manufacturing of effervescent salts, in combination with citric acid, to improve taste and make a fizz. It's also found in some of the very effective rust removal and cleaning solutions. Tartaric acid is used in cream of tartar (potassium bitartrate), which is used in cooking and baking. It can also be found in a variety of other foods, including soft drinks, fruit juices, candies, and ice cream. Like other acids, tartaric acid can be hazardous in large quantities, and it should always be handled and stored appropriately. Always refer to the safety data sheet for this substance and follow the recommended safety guidelines.

Citric Acid is a naturally occurring organic acid found in citrus fruits; it is also an intermediate in the citric acid cycle of aerobic organisms. It is used industrially as an acidity regulator, flavoring, detergent, and more than 2 million tons are produced annually. It's chemical formula is C6H8O7 .

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Method Parameters

Column	Newcrom BH, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	H2O
Buffer	H3PO4
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: https://sielc.com/hplc-separation-of-tartaric-acid-and-citric-acids

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