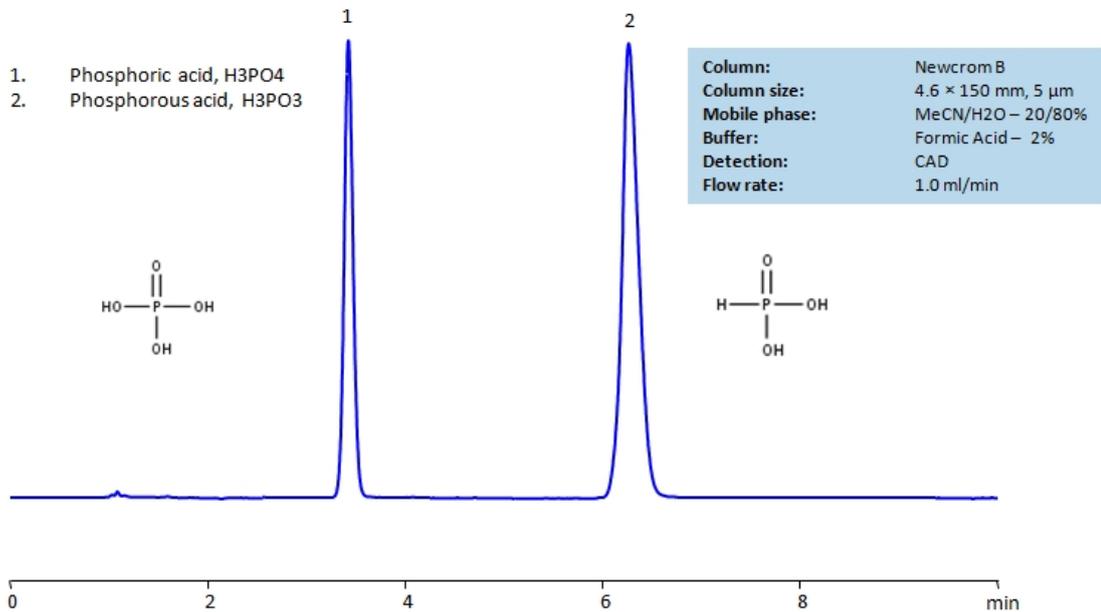


## HPLC Separation of Phosphoric and Phosphorous Acids on Newcrom B Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Phosphoric Acid , Phosphorous acid .

Phosphoric acid is an inorganic compound with chemical formula H<sub>3</sub>PO<sub>4</sub> . It is odorless and colorless, which leads to it's common use in soft drinks to help preserve the product. It is also used in fertilizers, metal treatment, and corrosion inhibition. Excessive intake of it is not recommended.

Phosphorous acid is a compound with chemical formula H<sub>3</sub>PO<sub>3</sub> . It's most important use is considered to be the production of basic lead phosphite, which is a stabilizer in PVC. It is also used as a reducing agent and in the production of synthetic fibers, organophosphorus pesticides, and the water treatment agent ATMP.

### Method Parameters

Column	Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H <sub>2</sub> O – 20/80%
Buffer	Formic Acid – 2%
Flow Rate	1.0 mL/min
Detection	CAD (Corona) MS- compatible mobile phase

Quelle: <https://sielc.com/hplc-separation-of-phosphoric-acid-and-phosphorous-acid>