

HPLC Method for Analysis of Ascorbic Acid on Primesep SB Column on Cromite™



High Performance Liquid Chromatography (HPLC) Method for Analysis of Ascorbic Acid

Ascorbic Acid is a vitamin with the molecular formula $C_6H_8O_6$. Typically, it is used to treat scurvy, support immune system, and preserve food. It is a white to light yellow powder that is easily dissolved in water. It can be found in a large variety of fruits and vegetables, especially in citrus fruits.

Ascorbic Acid can be retained and analyzed using the Primesep SB stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Column	Primesep SB, 3.2 x 100 mm, 5 μ m, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	SulfuricAcid
Flow Rate	0.5 mL/min
Detection	UV 275 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-ascorbic-acid>