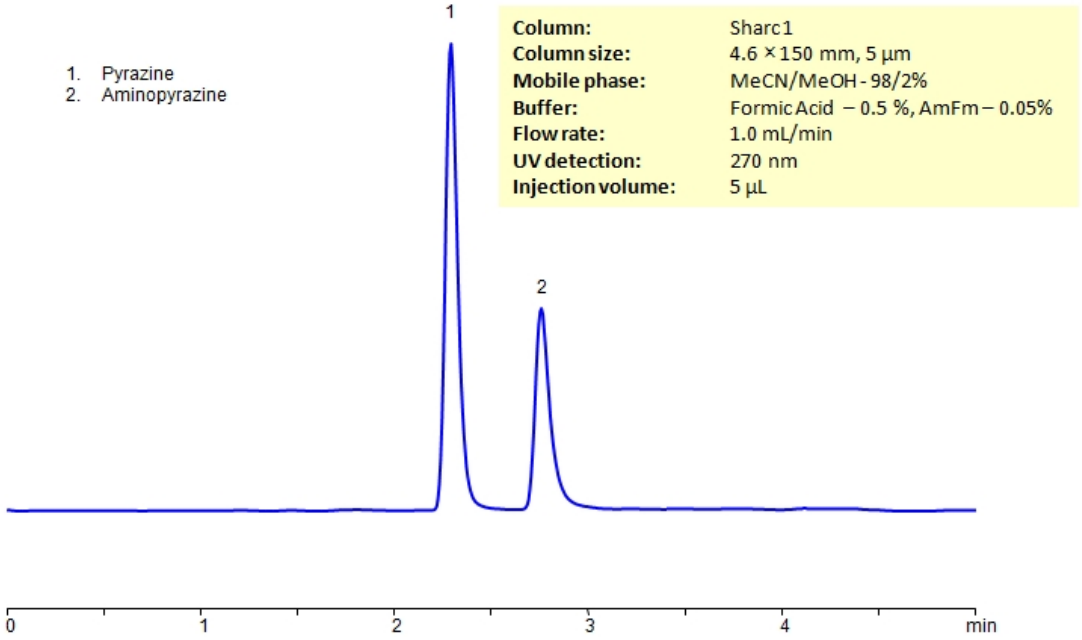
HPLC Separation of Pyrazine and Aminopyrazine on Sharc 1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Pyrazine , 2-Aminopyrazine

Pyrazine is an organic compound with C4H4N2chemical formula. It is known for its sweet and nutty aroma, but is usually used as a therapeutic agent in several drugs. Derivatives of it are also said to have anti-inflammatory, anticancer, antibacterial, and antioxidant properties.

Aminopyrazine, also known as 2-aminopyrazine and pyrazinamide, is a Pyrazine derivative with C4H5N3chemical formula. It is typically used as a building block in chemical synthesis and is found in pharmaceuticals, especially in antiviral drugs and other agrochemicals. Structure wise, it is a pyrazine ring with an attached amine group.

Pyrazine , 2-Aminopyrazine can be retained and analyzed using the SHARC1stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a formic acid buffer. Detection is performed using UV.

Method Parameters

Column	SHARC1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 98/2%
Buffer	Formic Acid – 0.5% AmFm -0.05%
Flow Rate	1.0 mL/min
Detection	UV 270 nm

Quelle: https://sielc.com/hplc-separation-of-pyrazine-and-aminopyrazine

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de