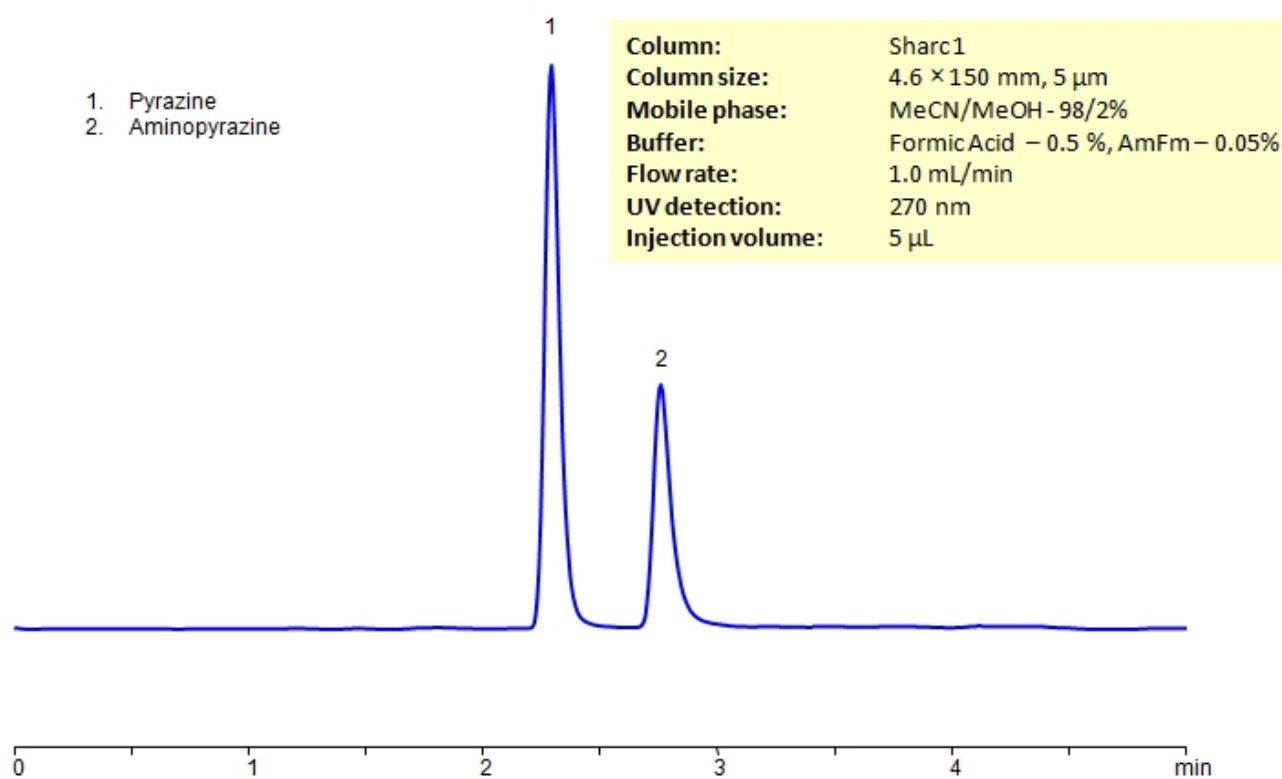


HPLC Separation of Pyrazine and Aminopyrazine on Sharc 1 Column

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

Chromatogram



HPLC Separation of Pyrazine and Aminopyrazine on Sharc 1 Column_1198

Description

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

Pyrazine is an organic compound with C4H4N2 chemical 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 C4H5N3 chemical 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 SHARC 1 stationary 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

Mobile Phase	MeCN/H ₂ O – 98/2%
Buffer	Formic Acid – 0.5 % AmFm -0.05%

Flow Rate	1.0 ml/min
Detection	UV 270 nm
Class of Compounds	Hydrophilic, Heterocyclic, Aromatic
Analyzing Compounds	Pyrazine,2-Aminopyrazine

HPLC Column Used

SHARC 1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)