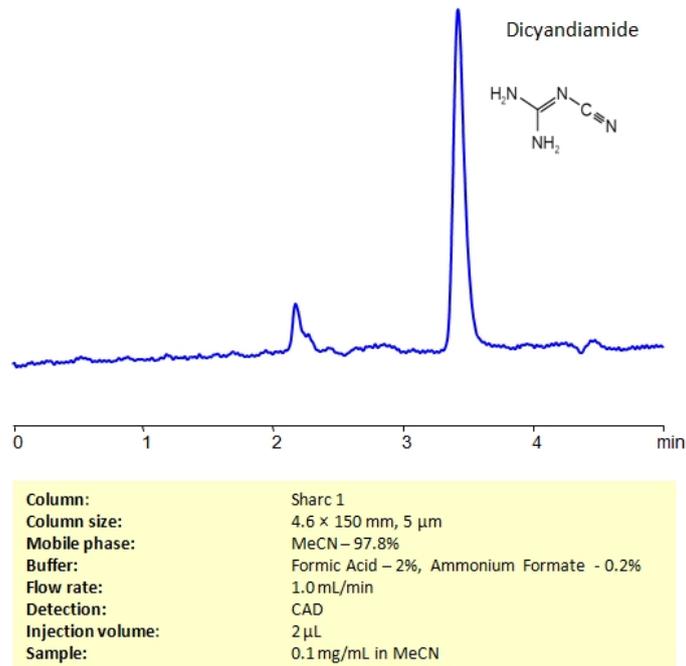


HPLC Determination of Dicyandiamide on Sharc 1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Dicyandiamide

Dicyandiamide, also known as cyanoguanidine, has a C₂H₄N₄ chemical formula. It is a white crystalline powder that has a variety of uses from agricultural to mechanical. Though, typically it is found in fertilizers as a nitrification inhibitor. It slows down nitrogen release and reduces losses from soil.

Dicyandiamide can be retained and analyzed using the SHARC1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a triethanolamine buffer. Detection is performed using CAD.

Method Parameters

Column	SHARC1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 97.8%
Buffer	AmFm 0.2%, Formic Acid – 2%
Flow Rate	1.0 mL/min
Detection	CAD (Corona) MS- compatible mobile phase

Quelle: <https://sielc.com/hplc-determination-of-dicyandiamide>