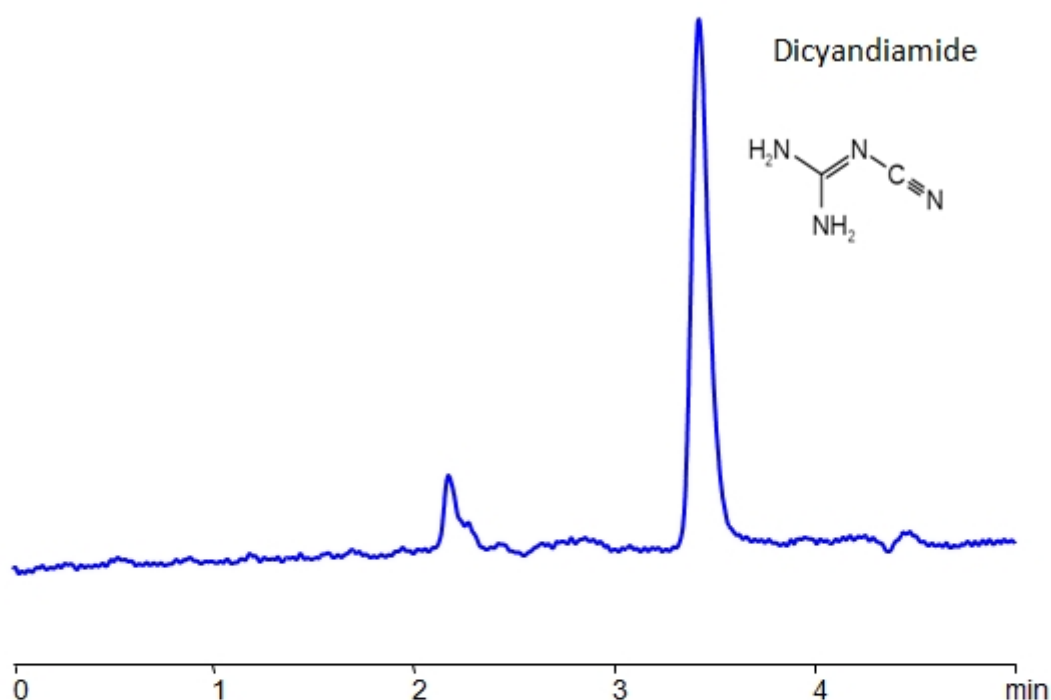


HPLC Determination of Dicyandiamide on Sharc 1 Column

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

Chromatogram



Column:	Sharc 1
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN – 97.8%
Buffer:	Formic Acid – 2%, Ammonium Formate - 0.2%
Flow rate:	1.0 mL/min
Detection:	CAD
Injection volume:	2 µL
Sample:	0.1 mg/mL in MeCN

HPLC Determenation of Dicyandiamide on Sharc 1 Column_1200

Description

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

Dicyandiamide, also known as cyanoguanidine, has a $C_2H_4N_4$ 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 SHARC 1 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

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
Class of Compounds	Amide, Hydrophilic, Ionizable
Analyzing Compounds	Dicyandiamide

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)