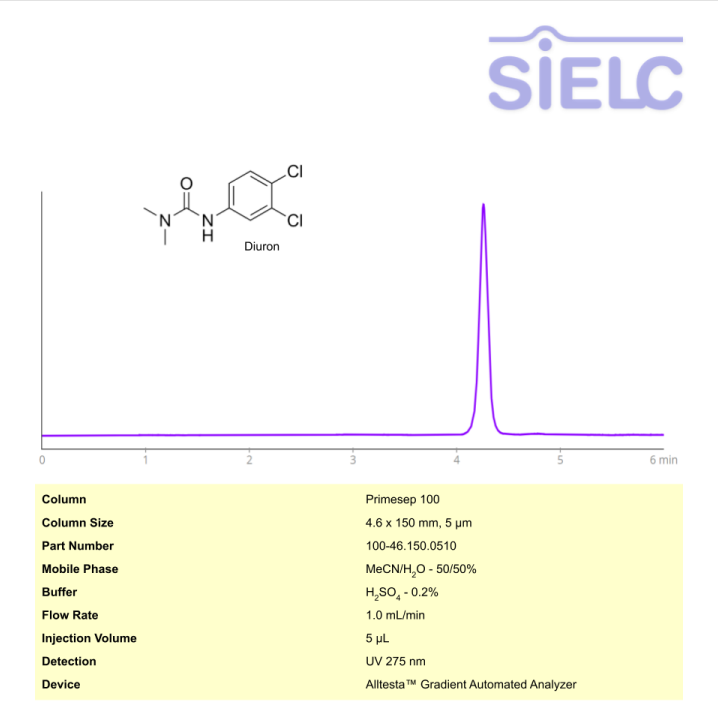
HPLC Method for Analysis of Diuron on Primesep 100 Column on Alltesta™



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

Diuron , also known as DCMU (3- (3,4-dichlorophenyl) -1,1-dimethylurea), is an algicide and herbicide with the chemical formula C9H10Cl2N2O . It works through inhibiting photosynthesis primarily broadleaf weeds such as crabgrass, foxtail, and pigweed. It is toxic when ingested and there are studies being conducted to test for whether or not it is a carcinogen. You can find detailed UV spectra of Diuron and information about its various lambda maxima by visiting the following link.

Diuron can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-diuron