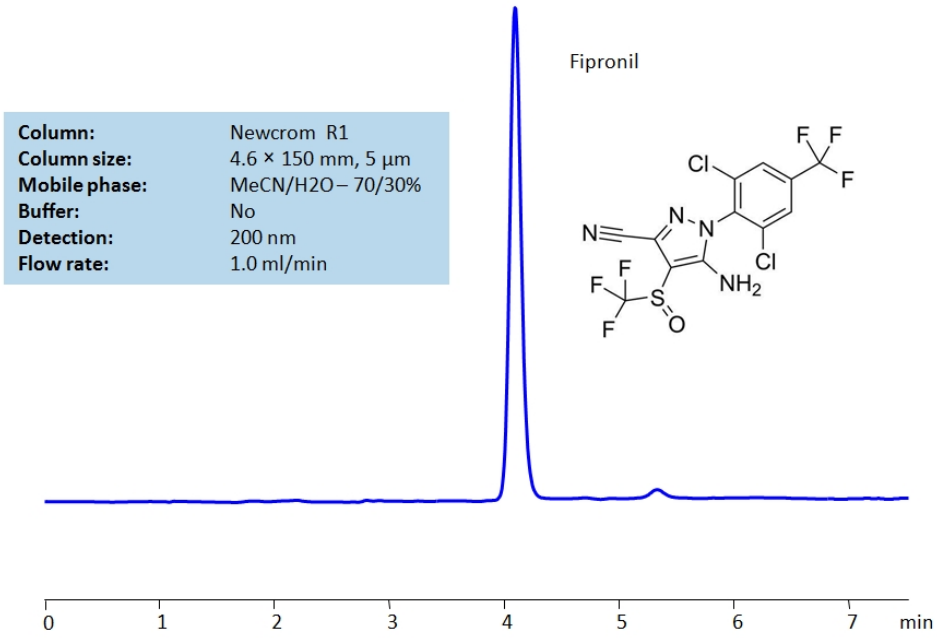
# HPLC Determination of Fipronil on Newcrom R1 Column




High Performance Liquid Chromatography (HPLC) Method for Analysis of Fipronil .

Fipronil is an insecticide with the chemical formula C12H4Cl2F6N4OS . It works through causing hyperexcitation of the nerves and muscles in contaminated insects. In Texas, it is often used to control invasive species of ants and wasps. It is also an active ingredient in flea and tick treatments for pets. WHO classifies it as a Class II, moderately hazardous, pesticide.

Fipronil can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) without a buffer. Detection is performed using UV.

## Method Parameters

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|---|---|
| **Column** | Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| **Mobile Phase** | MeCN/H2O |
| **Buffer** | No |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | UV 200 nm (MS-compatible mobile phase) |

Quelle: https://sielc.com/hplc-determination-of-fipronil-on-newcrom-r1-column

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