



AMITRAZ IN VARIDOL

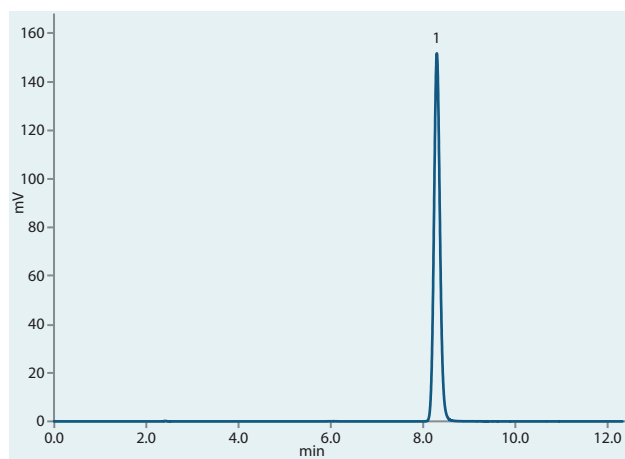
INTRODUCTION

The Beekeeping Research Institute produces Amitraz solution in concentration 125 mg/l, which is used as an insecticide. ARION® Plus C18 shows much less contamination by final product, which includes a heavy matrix (aromatic naphtha fraction). Even after many analyses the chromatogram shows a peak with a high symmetry/tailing factor (1.019).



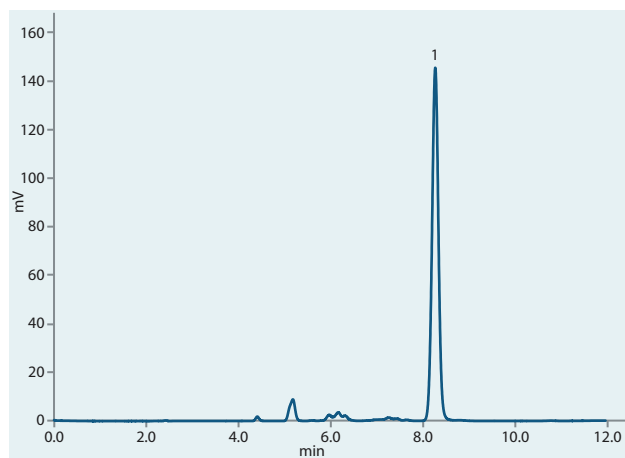
Substance: Amitraz, Acadrex, Acarac, AMITAC, AURORA KA-686, Azadieno, Ataform, Edrizar, Ovasyn, Tacti, Triazid, CAS Number 33089-61-1

Formula: N'-(2,4-Dimethylphenyl)-N-[(E)-[(2,4-dimethylphenyl)imino]methyl]-N-methylimidoformamide

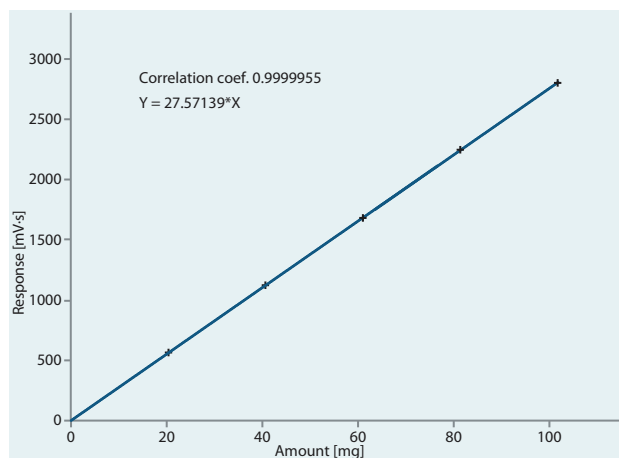


Standard mixture on ARION® column (50 mg/l)

Column	ARION® Plus C18, 5 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5720-LM46
Mobile phase	ACN/water 90/10 (v/v) Isocratic elution
Flow rate	1.0 ml/min
Temperature	Ambient
Detection	UV @310nm
Analytes	1. Amitraz



Sample analysis



Calibration curve

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