Monam in sewage water

Analysis of pesticides

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column isolates methyl isothiocynate, an indicator of the soil fumigant Monam, in water from a sewage treatment plant in eight minutes.

Agilent Technologies

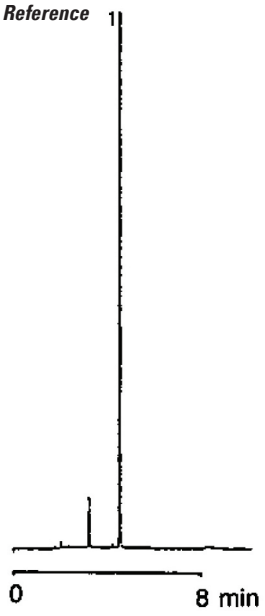
Conditions

Technique	:	GC-PTI
Column	:	Agilent CP-Sil 5 CB, 0.32 mm x 25 m fused silica WCOT CP-Sil 5 CB (1.2 µm) (Part no. CP7760)
Temperature	:	80 °C
Carrier Gas	:	N_2, 50 kPa (0.5 bar, 7 psi)
Injector	:	PTI
		cryofocussing : -80 °C
		precool time : 2 min
		purge time : 10 min
		purge flow : 10 mL/min
		condenser temp. : -15 °C
		injection temp. : 200 °C
		injection time : 5 min
Detector	:	FID, 8 x 10^{-12} Afs
Concentration Level	:	reference: 0.72 µg/L (0.72 ppb) sewage water: 0.5 µg/L (0.50 ppb)
Sample Size	:	reference: 5 mL (diluted 1:2 x 10^6) sewage water: 5 mL (diluted 1:10^3)
Courtesy	:	R. Dilling, H. de Bie and G. Sibon, Zuiveringsschap Drenthe, Assen, The Netherlands

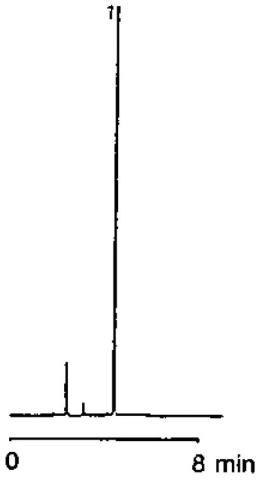
Peak identification

1. methyl isothiocyanate

Reference



Sewage water sample



www.agilent.com/chem

Printed in the USA
31 October, 2011
First published prior to 11 May, 2010
A00298

Agilent Technologies