

CGA 48988

Dissipation curve and determination of its
main metabolite CGA 62826 in soilF. 30 - AIGUES VIVESRef.
GEY/rvDate
01.3.78I - METHOD.

Soil samples were extracted with a buffered methanol aqueous mixture. After partition of CGA 48988 and CGA 62826, the active ingredient's samples were cleaned-up by column chromatography as well as those of the metabolite CGA 62826, after methylation by diazomethane. The analysis was performed by GLC with an AFID detector ; the limit of determination was 0,04 mg/kg.

II - HISTORY OF SAMPLES.

Soil samples were taken 0, 7, 15, 30 and 60 days after the application of 2000 g/m² a. CGA 48988.

The soil sampling took place by drilling down to 60 cm.

III - RESULTS.

CGA 48988 was only present in the 0-10 cm soil horizon, disappearing from 1,19 to 0,54 mg/kg in 60 days. Below 10 cm, no residue of a.i. could be detected.

CGA 62826 was not found between 0 and 60 cm soil depth for every date of sampling.

5.12.e Woo

EXP. LABO 22.77	COMPOUND CGA 48988 CGA 62826	COMMODITY Soil	VARIETY
PLANT PART	STAGE AT LAST SPRAYING	AT LAST SAMPLING	LOCATION COUNTRY F.30 - AIGUES VIVES
WEATHER CONDITIONS	Rainfall within 24h after spraying 27	Av. max. temps 29 °C Av. min. temps 19 °C	Precipitation 81 mm Sunshine
DATE(S) OF SPRAYING 7.28.77	FORMULATION A 5778 A - WP 12	CONCENTRATION 0,4 % a.l.	RATE OF APPLICATION 2000 g a.i./ha
EQUIPMENT Azopropan	NOZZLES/SPACER AREA TREATED 30 m ²	FIELD REPLICATES 1	SIZE OF SAMPLES 2 kg
TYPE OF SOIL See below	SAMPLES ARRIVED First 7.28.77 Last 9.28.77	ADDITIONAL PESTICIDES	
STORAGE until 10.3.77 -20 °C Room	SAMPLE TREATMENT	EXTRACTED 10.3.77	FINAL MEASUREMENTS 12.9.77
METHOD REM 7/77			

MODIFICATIONS.REMARKS Clay 24 % Loam 45,5 % Sand 28,5 % O.M. 2,1 % pH 8,2

The results are not corrected for recovery values.

SAMPLE MACERATED 50g		SAMPLE EXTRACTED 50g		SAMPLE CLEANUP 50g		ALIQUOT MEASURED						
X _{max} Depth	Soil Depth	Days after last spraying	COMPOUND CGA 48988			COMPOUND CGA 62826						
			Reading	mg	ng	ppm	Reading	mg	ng	ppm		
		CONTROL	< 1	25	< 1	< 0,04	< 1	25	< 1	< 0,04		
0-10		0	3	2,27	2,7	1,19	< 1	25	< 1	< 0,04		
0-10		7	4	8,33	3,5	0,42	< 1	25	< 1	< 0,04		
0-10		15	4,2	8,33	3,6	0,43	< 1	25	< 1	< 0,04		
0-10		30	5,4	12,5	4,5	0,36	< 1	25	< 1	< 0,04		
0-10		60	9,0 8,8	12,5 12,5	7,0 6,8	0,56 0,54	< 1	25	< 1	< 0,04		
REFERENCE	ng / cm		10 / 13,4	5 / 5,7	2,5 / 2,6	1 / 1	10 / 13,4	5 / 5,7	2,5 / 2,6	1 / 1		
RECOVERY	+ 0,2 ppm		5,4	25	4,5	0,18	90	5,8	25	4,8	0,19	95
RECOVERY	+ 0,4 ppm		5,8	12,5	4,75	0,38	95	5,9	12,5	4,9	0,39	97
LIMIT OF DETECTION			1	25	1	0,04		1	25	1	0,04	
30670 AIGUES-VIVES		Date	Analyt		Maffezzoni-Mme Bidouy		Check	LIT				