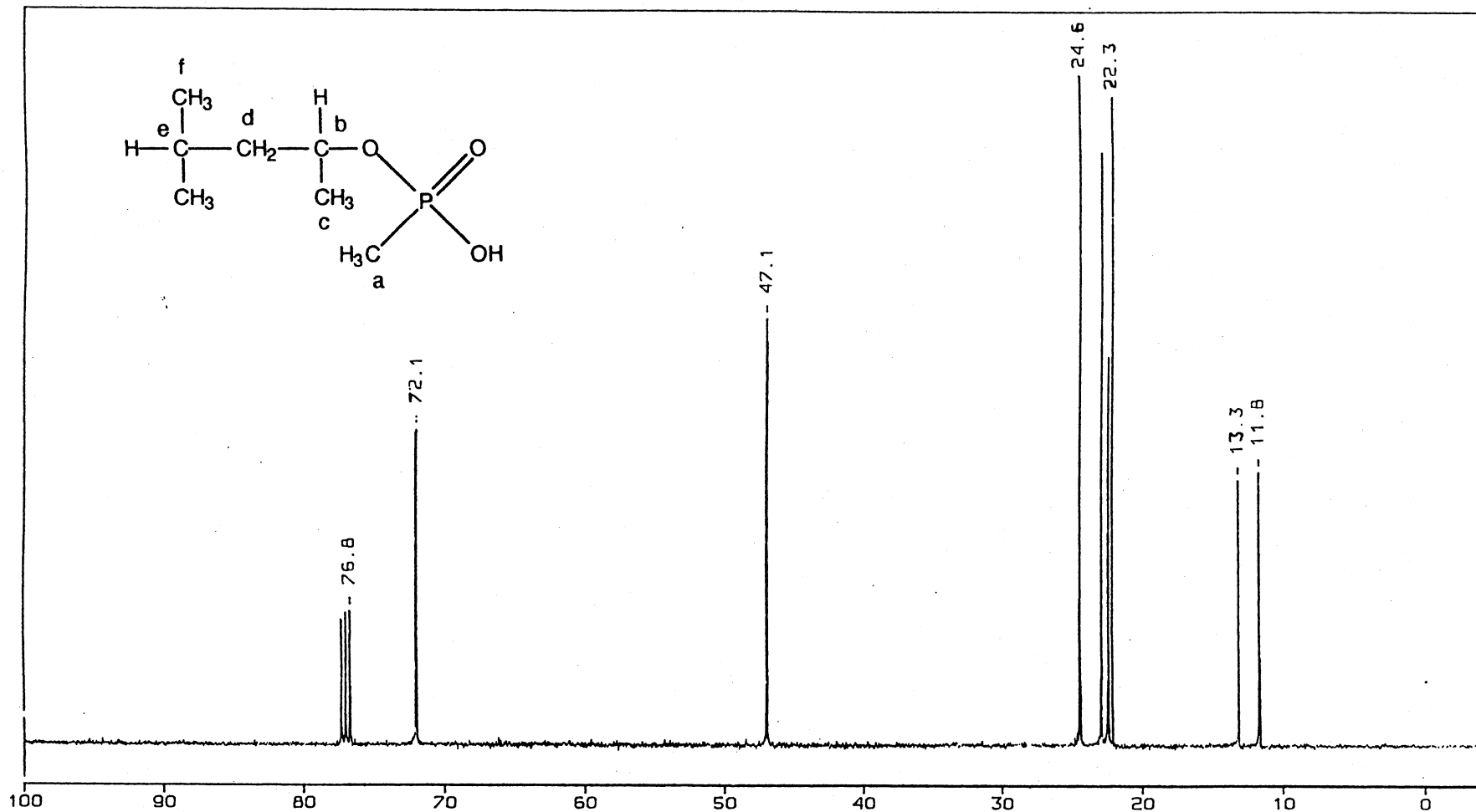


1,3-DIMETHYL-BUTYL HYDROGEN METHYL-PHOSPHONATE / HYDROXYSDMAN-X

 $C_7H_{17}O_3P$

QPO&1&OY1&1Y1&1

 ^{13}C (1H) NMR

Experiment:	^{13}C (1H) NMR	Obs. frequency:	100.6 MHz	shifts (ppm)	couplings (Hz)
Solvent:	$CDCl_3$	Spectral width:	10500 Hz	a 12.5	aP 148.0
Reference:	$CDCl_3$	Data points (FID):	20992	b 72.1	bP 7.1
Temperature:	30 °C	Pulse angle:	7 μ s	c 22.5	cP 2.2
Instrument:	Varian VXR40CS	Number of pulses:	320	d 47.1	dP 6.1
Date:	Mar 1 89	Repetition time:	2 s	e 24.5	
Spec.nr (NL):	lcb2Bb	Line broadening:	1 s	f 23.0 22.3	
		Data points (spec):	16 k		