

Substituent	$\alpha$	$\beta$	$\gamma$
alkyl carbon ( $sp^3$ )	9.1	9.4	-2.5
-C=C- ( $sp^2$ )	19.5	6.9	-2.1
-C $\equiv$ C- ( $sp$ )	4.4	5.6	-3.4
C <sub>6</sub> H <sub>5</sub>	22.1	9.3	-2.6
F	70.1	7.8	-6.8
Cl	31.0	10.0	-5.1
Br	18.9	11.0	-3.8
I	-7.2	10.9	-1.5
OH, OR	49.0	10.1	-6.2
-C(O)OR	56.5	6.5	-6.0
NH <sub>2</sub> , NHR, NR <sub>2</sub>	28.3	11.3	-5.1
NO <sub>2</sub>	61.6	3.1	-4.6
CHO	29.9	-0.6	-2.7
C(O)R	22.5	3.0	-3.0
C(O)OH	20.1	2.0	-2.8
C(O)OR	22.6	2.0	-2.8
CONR <sub>2</sub>	22.0	2.6	-3.2
CN	3.1	2.4	-3.3