Bond	Bond-Dissociation Energy, kcal/mol
H—X bonds and X—X bonds	
H—H	104
D—D	106
F—F	38
Cl—Cl	58
Br—Br	46
I—I	36
H—F	136
H—Cl	103
H—Br	88
H—I	71
HO—H	119
HO—OH	51
Methyl bonds	
CH_3—H	104
CH_3—F	109
CH_3—Cl	84
CH_3—Br	70
CH_3—I	56
CH_3—OH	91
Bonds to primary carbons	
CH_3CH_2—H	98
CH_3CH_2—F	107
CH_3CH_2—Cl	81
CH_3CH_2—Br	68
CH_3CH_2—I	53
CH_3CH_2—OH	91
$CH_3CH_2CH_2$—H	98
$CH_3CH_2CH_2$—F	107
$CH_3CH_2CH_2$—Cl	81
$CH_3CH_2CH_2$—Br	68
$CH_3CH_2CH_2$—I	53
$CH_3CH_2CH_2$—OH	91

Bond		Bond-Dissociation Energy, kcal/mol
Bonds to secondary carbons		
$(CH_3)_2CH$—H		95
$(CH_3)_2CH$—F		106
$(CH_3)_2CH$—Cl		80
$(CH_3)_2CH$—Br		68
$(CH_3)_2CH$—I		53
$(CH_3)_2CH$—OH		91
Bonds to tertiary carbons		
$(CH_3)_3C$—H		91
$(CH_3)_3C$—F		106
$(CH_3)_3C$—Cl		79
$(CH_3)_3C$—Br		65
$(CH_3)_3C$—I		50
$(CH_3)_3C$—OH		91
Other C—H bonds		
$PhCH_2$—H	(benzylic)	85
CH_2=$CHCH_2$—H	(allylic)	87
CH_2=CH—H	(vinyl)	108
Ph—H	(aromatic)	110
C—C bonds		
CH_3—CH_3		88
CH_3CH_2—CH_3		85
CH_3CH_2—CH_2CH_3		82
$(CH_3)_2CH$—CH_3		84
$(CH_3)_3C$—CH_3		81