

## Table B.14

## Bond Dissociation Enthalpies

Single-Bond Dissociation Enthalpies (kJ/mol)													
	As	B	Br	C	Cl	F	H	I	N	O	P	S	Si
As	180		255	200	310	485	300	180		330			
B		300	370		445	645		270		525			
Br			195	270	220	240	370	180	250		270	215	330
C				350	330	490	415	210	305	360	265	270	305
Cl					240	250	431	210	190	205	330	270	400
F						160	569		280	215	500	325	600
H							435	300	390	464	325	370	320
I								150		200	180		230
N									160	165			330
O										140	370	423	464
P											210		
S												260	
Si													225

  

Double- and Triple-Bond Dissociation Enthalpies (kJ/mol)			
C=C	611	C=S	477
C≡C	837	N=N	418
C=O	745	N≡N	946
C≡O	1075	N=O	594
C=N	615	O=O	498
C≡N	891	S=O	523