

Bond Dissociation Energies (DH°_{298} , kcal mol⁻¹) for A-B Bonds

A•\B• (ΔH°)	H (52.1)	F (19.0)	Cl (29.0)	Br (26.7)	I (25.5)	OH (8.9)	NH ₂ (44.5)	Me (35.1)	Et (29.0)	ⁱ Pr (21.5)	^t Bu (12.3)	Ph (80.5)	CN (105.0)
Me (35.1)	104.9	115	83.7	72.1	57.6	92.1	85.2	90.1	89.0	88.6	87.5	103.5	122.4
Et (29.0)	101.1	111	84.8	72.4	56.9	94.0	84.8	89.0	87.9	87.1	85.6	102.2	121.6
ⁱ Pr (21.5)	98.6	110.6	85.2	73.9	57	95.5	86.0	88.6	87.1	85.6	82.7	101.0	120.9
^t Bu (12.3)	96.5	113	84.9	72.6	55.6	95.8	85.7	87.5	85.6	82.7	78.6	98.3	117.8
Ph (80.5)	112.9	127.2	97.1	84	67	112.4	104.2	103.5	102.2	101.0	98.3	118	134
PhCH ₂ (49.7)	89.7	98.7	74	63	51	82.6	71.7	77.6	76.7	76.4	72.3	97	107.4
Allyl (41.4)	88.8	-	71	59	45.6	80.1	-	76.5	75.4	75.2	73.2	87.6	108.7
Vinyl (71.1)	110.7	123.3	91.2	80.8	-	-	-	101.4	100.0	99.2	97.8	116	133
HC≡C (135.6)	133.3	125	104	98	79	-	126	126.5	125.1	124.5	122.3	141	156
CF ₃ (-112.6)	105.8	129.6	85.3	69.7	54.1	115	101	103	-	-	-	111	112
CHO (10.1)	88.1	-	-	-	-	109.5	101	84.8	83.3	83.1	-	99.3	109
Ac (-2.4)	89.4	122.2	84.7	71.7	53.8	109.9	99.1	84.5	83.5	81.9	79.4	98.8	-
CN (105.0)	126.3	115	101	87.2	76.5	-	119	122.4	121.6	120.9	117.8	134	136.7
OH (8.9)	118.8	51.4	55.8	50	51	50.4	63	92.1	94.0	95.5	95.8	112.4	-
OMe (4.3)	104.6	-	48.0	-	-	45	54.6	83.2	84.8	85.8	84	101	-
OEt (-3.6)	104.7	-	-	-	-	43	-	82.7	85.1	-	-	100	-
OPh (11.6)	86.7	-	-	-	-	-	-	62.9	64.1	-	-	78.1	-
OAc (-43.0)	112	-	-	-	-	40.6	-	91	92	-	92	103	-
SH (34.2)	91.2	54.8	-	-	49	-	-	74.7	73.6	73.4	72.0	86.2	-
MeS (29.8)	87.4	-	70	-	49	-	-	73.6	72.4	72.4	70.4	85.4	-
PhS (58.0)	83.5	-	31	-	-	-	-	67	65	-	-	76	-
NO (21.8)	49.5	56.2	38.0	28.7	18	48.0	-	41.1	41.0	-	39.9	54.2	48.8
NO ₂ (8.2)	70	52.9	33.9	20	19	49.1	55	61.0	61.6	62.9	62.8	72.5	-
SiMe ₃ (3.6)	94.7	160	117.1	101.4	82.1	133	-	94.4	-	-	-	-	-
H (52.1)	104.2	136.3	103.2	87.5	71.3	118.8	107.6	104.9	101.1	98.6	96.5	112.9	126.3

Double and triple bonds: H₂C=CH₂ (174.1), H₂C=O (178.8), HC≡CH (230.7), HC≡N (223.4)

Sources: A. Streitwieser, revised and updated by R. G. Bergman (9/8/2003), S. J. Blanksby and G. B. Ellison *Acc. Chem. Res.* **2003**, *36*, 255-263, Y.-R. Luo *Comprehensive Handbook of Chemical Bond Energies* (CRC Press, 2007), revised and updated (9/19/2018, Y.M.W.).