Mean bond enthalpies and bond lengths

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| Bond | Mean bond enthalpy/kJ mol−1 | Bond length/nm |
| H−H | 436 | 0.074 |
| F−F | 158 | 0.142 |
| Cl−Cl | 243 | 0.199 |
| Br−Br | 193 | 0.228 |
| I−I | 151 | 0.267 |
| O−H | 464 | 0.096 |
| C−H | 413 | 0.108 |
| C−C | 347 | 0.154 |
| C=C | 612 | 0.134 |
| C≡C | 838 | 0.120 |
| C−Cl | 346 | 0.177 |
| C−Br | 290 | 0.194 |
| C−I | 228 | 0.214 |
| N−N | 158 | 0.145 |
| N≡N | 945 | 0.110 |
| N−H | 391 | 0.101 |
| O=O | 498 | 0.121 |
| C−O | 336 | 0.143 |
| C=O | 740 | 0.122 |
| H−F | 568 | 0.092 |
| H−Cl | 432 | 0.127 |
| H−Br | 366 | 0.141 |
| H−I | 298 | 0.161 |