1. Energy Conversion Table:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | eV | cm-1 | Hartree | kcal/mol | kj/mol | K (Tmp) | nm-1 | GHz |
| eV | 1 | 8065.54 | 0.03675 | 23.06054 | 96.485 | 11604.6 | 0.000807 | 2E+05 |
| cm-1 | 0.000124 | 1 | 4.6E-06 | 0.002859 | 0.012 | 1.43879 | 1E-07 | 29.98 |
| Hartree | 27.211399 | 219474.63 | 1 | 627.5096 | 2625.5 | 315777 | 0.021947 | 7E+06 |
| kcal/mol | 0.0433641 | 349.75501 | 0.00159 | 1 | 4.184 | 503.222 | 3.5E-05 | 10485 |
| kj/mol | 0.0103643 | 83.593453 | 0.00038 | 0.239006 | 1 | 120.273 | 8.36E-06 | 2506 |
| K (Tmp) | 8.617E-05 | 0.6950308 | 3.2E-06 | 0.001987 | 0.0083 | 1 | 6.95E-08 | 20.84 |
| nm-1 | 1239.8426 | 9999999.9 | 45.5634 | 28591.44 | 119627 | 1.4E+07 | 1 | 3E+08 |
| Ghz | 4.136E-06 | 0.0333564 | 1.5E-07 | 9.54E-05 | 0.0004 | 0.04799 | 3.34E-09 | 1 |

2. Atomic Units

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | au | Ang | nm | pm | cm | m | km |
| au | 1 | 0.52918 | 0.053 | 52.918 | 5E-05 | 5E-07 | 5E-10 |
| Ang | 1.88972 | 1 | 0.1 | 100 | 1E-08 | 1E-10 | 1E-13 |
| nm | 18.8972 | 10 | 1 | 1000 | 1E-07 | 1E-09 | 1E-12 |
| pm | 0.0189 | 0.01 | 0.001 | 1 | 1E-10 | 1E-12 | 1E-15 |
| cm | 18897.2 | 1E+08 | 1E+07 | 1E+10 | 1 | 0.01 | 1E-05 |
| m | 1889716 | 1E+10 | 1E+09 | 1E+12 | 100 | 1 | 0.001 |
| km | 1.9E+09 | 1E+13 | 1E+12 | 1E+15 | 100000 | 1000 | 1 |

3. Other relevant conversions