Energy Conversion Factors

 $\mathbf{k \cdot T_{295 \, K}} = 205.04 \, \text{cm}^{-1}$ 0.025421 eV 4.0729·10⁻²¹ J 2.4528 kJ/mol

	(λ _{nm}) ⁻¹	cm ⁻¹	eV	J	kJ/mol	THz	Hartree
$(\lambda_{nm})^{-1}$	1	1·10 ⁻⁷	1.2398·10 ³	1.9864·10 ⁻¹⁶	1.1963·10 ⁵	2.9979·10 ⁵	45.563
cm ⁻¹	1.107	1	1.2398·10 ⁻⁴	1.9864·10 ⁻²³	0.011963	0.029979	4.5563·10 ⁻⁶
eV	8.0655·10 ⁻⁴	8065.5	1	1.6022·10 ⁻¹⁹	96.485	241.80	0.036749
J	5.0341·10 ¹⁵	5.0341·10 ²²	6.2415·10 ¹⁸	1	6.0221·10 ²⁰	1.5092·10 ²¹	2.2937·10 ¹⁷
kJ/mol	8.3593·10 ⁻⁶	83.593	0.010364	1.6605·10 ⁻²¹	1	2.5061	3.8088·10 ⁻⁴
THz	3.3356·10 ⁻⁶	33.356	4.1357·10 ⁻³	6.6261·10 ⁻²²	0.39903	1	1.5198·10 ⁻⁴
Hartree	0.021947	2.1947·10 ⁵	27.211	4.3597·10 ⁻¹⁸	2625.5	6.5797·10 ³	1

All entries in each row are equal.

λ_{nm}	cm ⁻¹	eV	J	kJ/mol	kcal/mol	THz	h _V /J
25000	400	0.04959	7.946·10 ⁻²¹	4.785	1.144	11.99	1.259·10 ²⁰
12398	806.6	0.1000	1.602·10 ⁻²⁰	9.649	2.306	24.18	6.242·10 ¹⁹
10000	1000	0.1240	1.986·10 ⁻²⁰	11.96	2.859	29.98	5.034·10 ¹⁹
2500	4000	0.4959	7.946·10 ⁻²⁰	47.85	11.44	119.9	1.259·10 ¹⁹
1240	8065	1.000	1.602·10 ⁻¹⁹	96.47	23.06	241.8	6.242·10 ¹⁸
1000	10000	1.240	1.986·10 ⁻¹⁹	119.6	28.59	299.8	5.034·10 ¹⁸
800	12500	1.550	2.483·10 ⁻¹⁹	149.5	35.74	374.7	4.027·10 ¹⁸
700	14286	1.771	2.838·10 ⁻¹⁹	170.9	40.84	428.3	3.524·10 ¹⁸
600	16667	2.066	3.311·10 ⁻¹⁹	199.4	47.65	499.7	3.020·10 ¹⁸
500	20000	2.480	3.973·10 ⁻¹⁹	239.3	57.18	599.6	2.517·10 ¹⁸
400	25000	3.100	4.966·10 ⁻¹⁹	299.1	71.48	749.5	2.014·10 ¹⁸
300	33333	4.133	6.621·10 ⁻¹⁹	398.8	95.30	999.3	1.510·10 ¹⁸
200	50000	6.199	9.932·10 ⁻¹⁹	598.1	143.0	1499	1.007·10 ¹⁸
100	100000	12.40	1.986·10 ⁻¹⁸	1196	285.9	2998	5.034·10 ¹⁷

All entries in each row are equal.