

Valores termodinámicos seleccionados a 298.15 K

Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)	Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)
Aluminio				Carbono			
Al(s)	0	28.3	0	CaH ₂ (s)	-189	42	-150
AlCl ₃ (s)	-704.2	110.7	-628.9	CaO(s)	-635.5	40	-604.2
Al ₂ O ₃ (s)	-1676	50.92	-1582	CaS(s)	-482.4	56.5	-477.4
Azufre				Ca(OH) ₂ (s)	-986.6	76.1	-896.8
S(s, rómbico)	0	31.8	0	Ca(OH) ₂ (ac)	-1002.8	76.15	-867.6
S(g)	278.8	167.8	238.3	CaSO ₄ (s)	-1433	107	-1320
S ₂ Cl ₂ (g)	-18	331	-31.8	Carbono			
SF ₆ (g)	-1209	291.7	-1105	C(s, grafito)	0	5.740	0
H ₂ S(g)	-20.6	205.7	-33.6	C(s, diamante)	1.897	2.38	2.900
SO ₂ (g)	-296.8	248.1	-300.2	C(g)	716.7	158.0	671.3
SO ₃ (g)	-395.6	256.6	-371.1	CCL ₄ (ℓ)	-135.4	216.4	-65.27
SOCl ₂ (ℓ)	-206	—	—	CCL ₄ (g)	-103	309.7	-60.63
SO ₂ Cl ₂ (ℓ)	-389	—	—	CHCl ₃ (ℓ)	-134.5	202	-73.72
H ₂ SO ₄ (ℓ)	-814.0	156.9	-690.1	CHCl ₃ (g)	-103.1	295.6	-70.37
H ₂ SO ₄ (ac)	-907.5	17	-742.0	CH ₄ (g)	-74.81	186.2	-50.75
Bario				C ₂ H ₂ (g)	226.7	200.8	209.2
BaCl ₂ (s)	-860.1	126	-810.9	C ₂ H ₄ (g)	52.26	219.5	68.12
BaSO ₄ (s)	-1465	132	-1353	C ₂ H ₆ (g)	-84.86	229.5	-32.9
Berilio				C ₃ H ₈ (g)	-103.8	269.9	-23.49
Be(s)	0	9.54	0	C ₆ H ₆ (ℓ)	49.03	172.8	124.5
Be(OH) ₂ (s)	-907.1	—	—	C ₈ H ₁₈ (ℓ)	-268.8	—	—
Bromo				C ₂ H ₅ OH(ℓ)	-277.7	161	-174.9
Br(g)	111.8	174.9	82.4	C ₂ H ₅ OH(g)	-235.1	282.6	-168.6
Br ₂ (ℓ)	0	152.23	0	CO(g)	-110.5	197.6	-137.2
Br ₂ (g)	30.91	245.4	3.14	CO ₂ (g)	-393.5	213.6	-394.4
BrF ₃ (g)	-255.6	292.4	-229.5	CS ₂ (g)	117.4	237.7	67.15
HBr(g)	-36.4	198.59	-53.43	COCl ₂ (g)	-223.0	289.2	-210.5
Calcio				Cesio			
Ca(s)	0	41.6	0	Cs ⁺ (ac)	-248	133	-282.0
Ca(g)	192.6	154.8	158.9	CsF(ac)	-568.6	123	-558.5
Ca ²⁺ (g)	1920	—	—	Cloro			
CaC ₂ (s)	-62.8	70.3	-67.8	Cl(g)	121.7	165.1	105.7
CaCO ₃ (s)	-1207	92.9	-1129	Cl ⁻ (g)	-226	—	—
CaCl ₂ (s)	-795.0	114	-750.2	Cl ₂ (g)	0	223.0	0
CaF ₂ (s)	-1215	68.87	-1162	HCl(g)	-92.31	186.8	-95.30
				HCl(ac)	-167.4	55.10	-131.2

Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)	Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)
Cobre				Mg(OH) ₂ (s)	-924.7	63.14	-833.7
Cu(s)	0	33.15	0	MgS(s)	-347	—	—
CuO(s)	-157	42.63	-130	Mercurio			
Cromo				Hg(ℓ)	0	76.02	0
Cr(s)	0	23.8	0	HgCl ₂ (s)	-224	146	-179
(NH ₄) ₂ Cr ₂ O ₇ (s)	-1807	—	—	HgO(s, rojo)	-90.83	70.29	-58.56
Estaño				HgS(s, rojo)	-58.2	82.4	-50.6
Sn(s, blanco)	0	51.55	0	Níquel			
Sn(s, gris)	-2.09	44.1	0.13	Ni(s)	0	30.1	0
SnCl ₂ (s)	-350	—	—	Ni(CO) ₄ (g)	-602.9	410.4	-587.3
SnCl ₄ (ℓ)	-511.3	258.6	-440.2	NiO(s)	-244	38.6	-216
SnCl ₄ (g)	-471.5	366	-432.2	Nitrógeno			
SnO ₂ (s)	-580.7	52.3	-519.7	N ₂ (g)	0	191.5	0
Flúor				N(g)	472.704	153.19	455.579
F ⁻ (g)	-322	—	—	NH ₃ (g)	-46.11	192.3	-16.5
F ⁻ (ac)	-332.6	—	-278.8	N ₂ H ₄ (ℓ)	50.63	121.2	149.2
F(g)	78.99	158.6	61.92	(NH ₄) ₃ AsO ₄ (ac)	-1268	—	—
F ₂ (g)	0	202.7	0	NH ₄ Cl(s)	-314.4	94.6	-201.5
HF(g)	-271	173.7	-273	NH ₄ Cl(ac)	-300.2	—	—
HF(ac)	-320.8	—	-296.8	NH ₄ I(s)	-201.4	117	-113
Fósforo				NH ₄ NO ₃ (s)	-365.6	151.1	-184.0
P(g)	314.6	163.1	278.3	NO(g)	90.25	210.7	86.57
P ₄ (s, blanco)	0	177	0	NO ₂ (g)	33.2	240.0	51.30
P ₄ (s, rojo)	-73.6	91.2	-48.5	N ₂ O(g)	82.05	219.7	104.2
PCl ₃ (g)	-306.4	311.7	-286.3	N ₂ O ₄ (g)	9.16	304.2	97.82
PCl ₅ (g)	-398.9	353	-324.6	N ₂ O ₅ (g)	11	356	115
PH ₃ (g)	5.4	210.1	13	N ₂ O ₅ (s)	-43.1	178	114
P ₄ O ₁₀ (s)	-2984	228.9	-2698	NOCl(g)	52.59	264	66.36
H ₃ PO ₄ (s)	-1281	110.5	-1119	HNO ₃ (ℓ)	-174.1	155.6	-80.79
Hidrógeno				HNO ₃ (g)	-135.1	266.2	-74.77
H(g)	218.0	114.6	203.3	HNO ₃ (ac)	-206.6	146	-110.5
H ₂ (g)	0	130.6	0	Oxígeno			
H ₂ O(ℓ)	-285.8	69.91	-237.2	O(g)	249.2	161.0	231.8
H ₂ O(g)	-241.8	188.7	-228.6	O ₂ (g)	0	205.0	0
H ₂ O ₂ (ℓ)	-187.8	109.6	-120.4	O ₃ (g)	143	238.8	163
Hierro				OF ₂ (g)	23	246.6	41
Fe(s)	0	27.3	0	Plata			
FeO(s)	-272	—	—	Ag(s)	0	42.55	0
Fe ₂ O ₃ (s, hematita)	-824.2	87.40	-742.2	Plomo			
Fe ₃ O ₄ (s, magnetita)	-1118	146	-1015	Pb(s)	0	64.81	0
FeS ₂ (s)	-177.5	122.2	-166.7	PbCl ₂ (s)	-359.4	136	-314.1
Fe(CO) ₅ (ℓ)	-774.0	338	-705.4	PbO(s, amarillo)	-217.3	68.70	-187.9
Fe(CO) ₅ (g)	-733.8	445.2	-697.3	Pb(OH) ₂ (s)	-515.9	88	-420.9
Litio				PbS(s)	-100.4	91.2	-98.7
Li(s)	0	28.0	0	Potasio			
LiOH(s)	-487.23	50	-443.9	K(s)	0	63.6	0
LiOH(ac)	-508.4	4	-451.1	KCl(s)	-436.5	82.6	-408.8
Magnesio				KClO ₃ (s)	-391.2	143.1	-289.9
Mg(s)	0	32.5	0	KI(s)	-327.9	106.4	-323.0
MgCl ₂ (s)	-641.8	89.5	-592.3	KOH(s)	-424.7	78.91	-378.9
MgO(s)	-601.8	27	-569.6	KOH(ac)	-481.2	92.0	-439.6

Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)	Especie	ΔH_f^0 (kJ/mol)	S^0 (J/mol · K)	ΔG_f^0 (kJ/mol)
Rubidio				NaCl(s)	-411.0	72.38	-384
Rb(s)	0	76.78	0	NaCl(ac)	-407.1	115.5	-393.0
RbOH(ac)	-481.16	110.75	-441.24	Na ₂ CO ₃ (s)	-1131	136	-1048
Silicio				NaOH(s)	-426.7	—	—
Si(s)	0	18.8	0	NaOH(ac)	-469.6	49.8	-419.2
SiBr ₄ (ℓ)	-457.3	277.8	-443.9	Titanio			
SiC(s)	-65.3	16.6	-62.8	TiCl ₄ (ℓ)	-804.2	252.3	-737.2
SiCl ₄ (g)	-657.0	330.6	-617.0	TiCl ₄ (g)	-763.2	354.8	-726.8
SiH ₄ (g)	34.3	204.5	56.9	Wolframio			
SiF ₄ (g)	-1615	282.4	-1573	W(s)	0	32.6	0
SiL ₄ (g)	-132	—	—	WO ₃ (s)	-842.9	75.90	-764.1
SiO ₂ (s)	-910.9	41.84	-856.7	Yodo			
H ₂ SiO ₃ (s)	-1189	134	-1092	I(g)	106.6	180.66	70.16
Na ₂ SiO ₃ (s)	-1079	—	—	I ₂ (s)	0	116.1	0
H ₂ SiF ₆ (ac)	-2331	—	—	I ₂ (g)	62.44	260.6	19.36
Sodio				ICl(g)	17.78	247.4	-5.52
Na(s)	0	51.0	0	HI(g)	26.5	206.5	1.72
Na(g)	108.7	153.6	78.11	Zinc			
Na ⁺ (g)	601	—	—	ZnO(s)	-348.3	43.64	-318.3
NaBr(s)	-359.9	—	—	ZnS(s)	-205.6	57.7	-201.3