

TABULKA III

Standardní slučovací entalpie při teplotě 298,15 K ($\Delta_{sl}H(298\text{ K})$), standardní molární entropie při teplotě 298,15 K ($S_m(298\text{ K})$) a konstanty teplotní závislosti standardní molární tepelné kapacity při stálém tlaku (C_{pm}) [91KNA]

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
Al(fcc)	0	28,275	20,108	13,166	0,033		298 - 933
Al(l)			31,752				933 - 2790
AlCl(g)	-51,463	227,969	37,384	0,460	-0,305		298 - 2000
AlCl ₂ (g)	-280,298	289,420	57,681	0,280	-0,548		298 - 2000
AlCl ₃ (g)	-584,588	314,490	81,965	0,628	-0,992		298 - 2000
Al ₂ O ₃ (s)	-1675,692	50,949	117,487	10,376	-3,711		298 - 2327
Al ₂ O ₃ .SiO ₂ (andalusit)	-2590,314	93,776	161,841	35,171	-4,435		298 - 1800
Al ₂ O ₃ .SiO ₂ (sillimanit)	-2587,804	96,090	182,046	15,439	-5,753		298 - 1800
Al ₂ O ₃ .SiO ₂ (kyanit)	-2594,080	84,467	183,770	17,100	-6,121		298 - 1600
3Al ₂ O ₃ .2SiO ₂ (s)	-6819,208	274,889	480,574	43,430	-15,230		298 - 2123
AlN(s)	-318,402	20,150	47,823	1,849	-1,674		298 - 2500
Al ₂ (SO ₄) ₃ (s)	-3441,340	239,199	366,309	62,593	-11,163		298 - 989
As(rho)	0	35,690	23,029	5,745			298 - 875
As ₂ (g)	190,790	240,881	37,196	0,151	-0,201		298 - 2100
As ₄ (g)	153,301	327,431	82,939	0,130	-0,515		298 - 2000
B(s)	0	5,828	18,874	8,167	-0,929	-1,356	298 - 2350
B(l)			31,748				2350 - 4139
BaCl ₂ (s1)	-858,556	123,679	66,367	23,472	0,159		298 - 1198
B ₂ O ₃ (s)	-1271,898	53,948	57,028	73,011	-1,406		298 - 723
B ₂ O ₃ (l)			129,704				723 - 2329
BaO(s)	-548,104	72,069	50,559	7,017	-0,523		298 - 2286
BaO.Al ₂ O ₃ (s1)	-2324,212	148,532	143,302	73,889	-4,590		298 - 600
BaO.Al ₂ O ₃ (s2)			138,198	31,631			600 - 2100
2BaO.SiO ₂ (s)	-2276,937	177,820	175,351	11,464	-3,971		298 - 1300
C(gra)	0	5,740	0,109	38,940	-0,146	-17,385	298 - 1100

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
			24,435	0,435	-3,163		1100 - 4055
C(dia)	1,895	2,377	9,121	13,221	-0,619		298 - 1400
CO(g)	-110,528	197,648	30,962	2,439	-0,280		298 - 3000
CO ₂ (g)	-393,521	213,794	51,128	4,368	-1,469		298 - 3000
CH ₄ (g)	-74,872	186,251	11,933	77,647	0,142	-18,414	298 - 2000
CaO(s)	-635,089	38,212	50,147	4,184	-0,849		298 - 3200
CaCO ₃ (s)	-1208,356	93,052	104,516	21,924	-2,594		298 - 1170
CdS(s)	-154,565	74,438	44,560	13,807			298 - 1748
CdSO ₄ (s)	-934,287	123,051	76,735	77,404			298 - 1326
CdSe(s)	-145,615	84,144	46,819	9,330			298 - 1512
CdTe(s)	-97,872	93,236	52,509	18,995	-0,736		298 - 1372
Cl ₂ (g)	0	223,078	36,610	1,079	-0,272		298 - 2000
Co(hcp)	0	30,006	19,125	20,468		-4,682	298 - 700
Co(fcc)			4,469	29,987	2,515		700 - 1000
			-7,644	43,271			1000 - 1400
			-145,243	72,601	171,921		1400 - 1768
Co(l)			40,501				1768 - 3200
CoO(s)	-237,944	52,969	45,258	10,694	0,602		298 - 2000
Cr(bcc)	0	23,640	24,514	2,050	-0,180	5,950	298 - 2130
Cr ₂ O ₃ (s)	-1140,558	81,170	109,650	15,456			298 - 2000
Cu(fcc)	0	33,162	20,531	8,611	0,155		298 - 1358
Cu(l)			32,844				1358 - 2000
CuO(s)	-156,059	42,589	48,597	7,427	-0,761		298 - 1364
Cu ₂ O(s)	-170,711	92,362	58,199	23,974	-0,159		298 - 1517
CuS(s)	-53,718	66,526	44,350	11,046			298 - 774
Cu ₂ S(s1)	-79,496	120,918	52,844	78,743			298 - 376
Cu ₂ S(s2)			112,048	-30,752			376 - 717
Cu ₂ S(s3)			84,642				717 - 1402
CuSO ₄ (s)	-769,981	109,244	73,429	152,842	-1,230	-71,588	289 - 1075
Fe(bcc)	0	27,280	14,954	28,079	0,155		298 - 800

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
			26,439	20,677			800 - 1184
Fe(fcc)			23,987	8,360			1184 - 1665
Fe(bcc)			24,640	9,899			1665 - 1809
Fe(l)			46,024				1809 - 3158
FeO(s)	-265,955	59,409	48,794	8,372	-0,289		298 - 1645
Fe ₃ O ₄ (s)	-1115,479	146,231	91,558	201,970			298 - 900
			200,832				900 - 1870
Fe ₂ O ₃ (s)	-823,411	87,446	98,278	77,818	-1,485		298 - 950
			150,599				950 - 1050
			132,670	7,364			1050 - 1729
Ga(ort)	0	40,827	26,196				298 - 303
Ga(l)			24,384	2,293	0,310		303 - 700
			26,568				700 - 2478
Ga ₂ O(g)	-92,253	284,435	54,779	3,844	-0,604	-1,139	298 - 2000
Ga ₂ O ₃ (s)	-1089,095	84,935	112,884	15,439	-2,100		298 - 1998
GaAs(s)	-74,056	64,183	45,187	6,067			298 - 1511
GaSb(s)	-43,932	76,065	44,450	14,226			298 - 985
Ge(dia)	0	31,087	23,351	3,899	-0,105		298 - 1210
Ge(l)			27,614				1210 - 2000
GeF ₄ (g)	-1190,138	301,901	101,127	4,151	-1,845		298 - 2000
GeS(s)	-76,868	65,982	41,798	20,125			298 - 938
H ₂ (g)	0	130,679	26,882	3,586	0,105		298 - 3000
HCl(g)	-92,307	186,908	26,527	4,602	0,109		298 - 2000
H ₂ O(l)	-285,829	69,948	20,355	109,198	2,033		298 - 373
H ₂ O(g)	-241,856	188,824	34,376	7,841	-0,423		298 - 3000
H ₂ S(g)	-20,501	205,757	34,911	10,686	-0,448		298 - 2000
In(tet)	0	57,823	10,962	39,848	-0,347		298 - 430
In(l)			29,878	-0,891			430 - 900
			29,079				900 - 2343
InSb(s)	-30,543	87,111	44,769	15,062			298 - 798

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
InSb(l)			61,923				798 - 1200
K(bcc)	0	64,672	8,452	70,751			298 - 336
K(l)			37,179	-19,121			336 - 1036
KClO ₄ (s1)	-430,115	151,042	138,490	62,760	-3,975		298 - 573
K ₂ SO ₄ (s1)	-1437,706	175,544	100,290	124,600	-0,515		298 - 857
Li(bcc)	0	29,121	1,297	56,308	0,602		298 - 454
Li(l)			26,761	1,490	0,635		454 - 1605
LiClO ₄ (s)	-380,697	126,001	137,235	44,643	-4,046		298 - 509
Mg(hcp)	0	32,677	21,389	11,778			298 - 923
Mg(l)			34,309				923 - 1366
Mg(g)	146,824	148,536	20,786				298 - 3000
MgO(s)	-601,701	26,941	48,995	3,431	-1,134		298 - 3105
MgO.Al ₂ O ₃ (s)	-2299,108	88,701	146,775	35,564	-3,682		298 - 2000
MgO.SiO ₂ (s1)	-1548,498	67,864	92,048	33,054	-1,778		298 - 903
MgO.SiO ₂ (s2)			120,332				903 - 1258
MgO.SiO ₂ (s3)			122,424				1258 - 1850
2MgO.SiO ₂ (s)	-2176,935	95,186	144,306	38,744	-3,284	-5,481	298 - 2171
MgS(s)	-345,719	50,329	48,744	3,640	-0,381		298 - 2000
MgCO ₃ (s)	-1095,798	65,701	77,906	57,739	-1,741		298 - 812
MnO(s)	-382,543	58,994	46,484	8,117	-0,368		298 - 2083
MnS(s)	-213,384	80,333	47,698	7,531			298 - 1803
Mo(bcc)	0	28,606	29,732	-5,699	-0,439	4,665	298 - 2896
N ₂ (g)	0	191,610	30,418	2,544	-0,238		298 - 3000
NH ₃ (g)	-46,111	192,451	37,321	18,661	-0,649		298 - 1500
NaBr(s)	-361,062	86,818	40,974	24,510	0,280		298 - 1020
NaCl(s)	-411,153	72,132	42,003	22,393	1,619		298 - 1074
NaClO ₄ (s1)	-377,815	143,930	138,992	53,555	-3,899		298 - 581
NaF(s)	-573,647	51,296	45,049	16,041	-0,259		298 - 1269
NaI(s)	-287,775	98,533	41,953	25,422	0,226		298 - 934
Ni(fcc)	0	29,874	19,355	22,456	0,017		298 - 400

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
			22,288	17,464			400 - 700
			20,589	10,159	1,615		700 - 1728
Ni(l)			38,911				1728 - 3169
NiO(s1)	-239,743	37,991	-6,322	131,235	1,021		298 - 525
NiO(s2)			-34,250	168,448			525 - 565
NiO(s3)			39,915	12,368	-0,573		565 - 2228
NiO.Al ₂ O ₄ (s)	-1921,497	98,324	159,201	23,347	-3,075		298 - 2000
NiS(s1)	-87,864	53,011	44,685	19,037	-0,289		298 - 652
NiS(s2)			34,392	28,660			652 - 1249
NiS(l)			34,586	28,460	0,013		1249 - 1700
NiTi(s)	-66,525	53,137	53,011	9,623	-0,812		298 - 1583
NiTi ₂ (s)	-83,680	83,680	67,990	23,430			298 - 1257
Ni ₃ Ti(s)	-139,327	138,072	108,951	16,862	-1,820		298 - 1653
O ₂ (g)	0	205,146	29,154	6,477	-0,184	-1,017	298 - 3200
S ₂ (g)	128,599	228,166	35,062	2,582	-0,293		298 - 2000
SO ₂ (g)	-296,833	248,094	49,936	4,766	-1,046		298 - 2000
SO ₃ (g)	-395,722	257,111	69,998	6,611	-1,937		298 - 2000
Sb(rho)	0	45,522	30,514	-15,498	-0,201	18,020	298 - 904
Sb(l)			31,380				904 - 1858
Sb ₂ O ₃ (valentinit)	-708,770	123,010	114,014	8,318	-1,343		298 - 928
Si(dia)	0	18,282	22,811	3,870	-0,356		298 - 1685
Si(l)			27,196				1685 - 2500
SiCl ₄ (g)	-662,742	330,932	106,526	0,753	-1,473		298 - 2000
SiO(g)	-98,324	211,610	32,664	2,862	-0,322		298 - 2000
SiO ₂ (křemen1)	-910,856	41,463	40,497	44,601	-0,833		298 - 847
SiO ₂ (křemen2)			67,953	2,577	-0,138		847 - 1823
SiO ₂ (tridymit3)			70,341	2,536	-3,167		500 - 1743
SiO ₂ (cristobalit3)			71,630	1,883	-3,908		1079 - 2001
SiO ₂ (l)			85,772				2001 - 2500
SnCl ₄ (g)	-471,536	364,954	106,629	1,414	-0,766		298 - 2000

Látka	$\Delta_{sl}H(298\text{ K})$ (kJ/mol)	$S_m(298\text{ K})$ (J/K.mol)	$C_{pm} = A + B.T + C/T^2 + D.T^2$ (J/K.mol)				Obor teplot (K)
			A	$10^3 B$	$10^{-6} C$	$10^6 D$	
SnO ₂ (s)	-580,822	52,342	66,467	16,644	-1,674		298 - 1893
SrO(s)	-592,036	55,522	50,752	6,097	-0,628		298 - 2000
TeF ₆ (g)	-1369,004	336,000	152,076	3,100	-3,171		298 - 2000
Ti(hcp)	0	30,761	22,238	10,205	-0,008		298 - 1166
Ti(bcc)			17,405	10,314	-0,096		1166 - 1939
Ti(l)			47,237				1939 - 2500
TiCl ₄ (g)	-763,161	354,803	107,169	0,490	-1,050		298 - 2000
TiC(s)	-184,514	24,686	46,882	5,899	-1,301		298 - 2000
TiN(s)	-338,067	30,250	49,831	3,933	-1,238		298 - 2000
TiSi ₂ (s)	-133,888	61,086	70,417	17,573	-0,904		298 - 1773
W(bcc)	0	32,660	24,493	2,741	-0,079	0,167	298 - 3680
WC(s)	-40,584	31,800	43,376	8,636	-0,933	-1,021	298 - 2500
WS ₂ (s)	-259,408	64,852	68,630	15,606	-0,866		298 - 2073
WSi ₂ (s)	-92,884	64,015	67,823	11,046	-0,611		298 - 2000
Y ₂ O ₃ (s1)	-1905,309	99,119	123,097	5,937	-1,987		298 - 1330
Y ₂ O ₃ (s2)			131,796				1330 - 2000
Zn(hcp)	0	41,631	21,334	11,648	0,054		298 - 693
Zn(l)			31,380				693 - 1179
Zn(g)	130,415	160,988	20,786				298 - 2500
ZnO(s)	-350,619	43,639	45,338	7,289	-0,573		298 - 2242
ZnS(s1)	-205,016	57,739	49,246	5,272	-0,485		298 - 1293
ZnS(s2)			49,455	4,435	-0,435		1293 - 1907
ZnSO ₄ (s1)	-980,143	110,541	65,823	135,712	-0,644		298 - 540
ZnSO ₄ (s2)			130,306	11,623	0,063		540 - 1013
ZnSO ₄ (s3)			145,185				1013 - 1214
ZnSe(s)	-170,297	77,659	50,166	5,774			298 - 1799
ZnTe(s)	-119,244	77,822	44,099	18,744			298 - 1570
Zr(hcp)	0	38,995	22,857	8,970	-0,071		298 - 1136
Zr(bcc)			21,493	6,573	3,674		1136 - 2125
Zr(l)			33,472				2125 - 2500

