TABULKA IX

Konstanty Redlichovy - Kisterovy rovnice pro vybrané binární a pseudobinární systémy ve tvaru

$$\Delta G_{\mathrm{m}}^{E} = x_1 x_2 \left[\left(L^{0,H} - L^{0,S} T \right) + \left(L^{1,H} - L^{1,S} T \right) \left(x_1 - x_2 \right) \right]$$

Systém (1)-(2)	$L^{0,H}$ (J mol^{-1})	$L^{0,S}$ (J K^{-1} mol^{-1})	$L^{1,H}$ (J mol^{-1})	$L^{1,S}$ (J K^{-1} mol^{-1})	Lit.
Al-Si(l)	-10835,9	2,4056			[80DOR]
Al-Nb(l)	-209200	-67,78			[91KAU]
Al-Nb(bcc)	-204585	-66,28			[91KAU]
As-Ga(l)	-21680	6,43	-20050	-13,76	[89ISH]
As-In(l)	-29360		-32820	-32,2	[89ISH]
CaO-CoO(s)	30899				[83DAV]
CaO-MgO(s)	60611				[83DAV]
CaO-NiO(s)	46091				[83DAV]
CaS-MnS(s)	25797				[83DAV]
CaSe-MnSe s)	22255				[83DAV]
CaTe-MnTe(s)	23461				[83DAV]
CdS-CdTe(s)	21460	3,05	-5330	-7,75	[92OHT]
Co-Fe(l)	-9312		-1752		[89FER]
Co-Ni(l)	1331				[89FER]
CoO-FeO(s)	3214				[83DAV]
CoO-MgO(s)	4799				[83DAV]
CoO-MnO(l)	2350				[86BER]
CoO-MnO(s)	3750				[86BER]
CoO-NiO(s)	4934				[83DAV]
Cr_2O_3-Fe_2O_3(s)	-7530				[79PEL]
CsBr-CsI(l)	332		-31		[87SAN]
CsBr-CsI(s)	6500				[87SAN]
Cu-Nb(l)	111294	41,84			[91KAU]
Cu-Nb(bcc)	46024				[91KAU]
Fe-Ni(l)	-18378,9	-6,039	9228,1	3,546	[89FER]
FeO-MgO(s)	15945				[83DAV]
FeO-MnO(s)	5243				[83DAV]

Systém (1)-(2)	$L^{0,H}$ (J mol^{-1})	$L^{0,S}$ (J K^{-1} mol^{-1})	$L^{1,H}$ (J mol^{-1})	$L^{1,S}$ (J K^{-1} mol^{-1})	Lit.
Ga-Ge(l)	-2551	-0,48			[85OLEa]
Ga-In(l)	4323,7	-1,218			[85ASEb]
Ga-P(l)	-11370	3,95	37590	26,51	[89ISH]
Ga-Sb(l)	-3887	5,835			[85ASEa]
Ga-Si(l)	14900	4,9			[85OLEb]
Ga-Sn(l)	3477	1,046	259		[79ANS]
Ga-Sn(tet)	3138				[79ANS]
GaAs-InAs(s)	12000				[74STR]
GaSb-InSb(s)	-472,4	-6,70			[85ASEb]
Ge-Si(l)	6500				[84OLE]
Ge-Si(s)	3500				[84OLE]
In-Sb(l)	-11146	7,150			[85ASEa]
KBr-KI(s)	7067	2,743			[87SAN]
KCl-K_2CO_3(l)	923		-1470		[90DES]
LiF-LiCl(l)	-1000				[87SAN]
LiF-Li_2CO_3(l)	-1477				[90DES]
Mg-Ni(l)	-60218	-26,0			[85NAY]
MgO-NiO(s)	-13537	-4,8	-8434	-5,9	[81DAV]
MnO-MnS(s)	52230				[83DAV]
MnO-NiO(s)	12328				[83DAV]
NaCl-NaF(l)	2057		-642		[87SAN]
Pb-Sn(l)	5124,7	-1,463	293,8		[81NGA]
Pb-Sn(fcc)	5132,1	-1,563			[81NGA]
Pb-Sn(bct)	17116,9	11,806			[81NGA]
NaCl-Na_2CO_3(l)	498				[90DES]
Si-Ti(bcc)	-248600	-45,07			[89VAH]
ZnS-ZnTe(s)	21140	-5,78	-78,3	-1,784	[92OHT]

Literatura k tabulce IX

[74STR] G.B. Stringfellow: J. Cryst. Growth **27**, 21 (1974).
[79ANS] I. Ansara, J.P. Bros a M. Gambino: CALPHAD **3**, 225 (1979).
[79PEL] A.D. Pelton a kol.: J. Phys. Chem. Solids **40**, 1103 (1979).
[80DOR] P. Dörner a kol.: CALPHAD **4**, 241 (1980).
[81DAV] P.K. Davies a A. Navrotsky: J. Solid State Chem. **38**, 264 (1981).
[81NGA] T.L. Ngai a Y.A. Chang: CALPHAD **5**, 267 (1981).
[83DAV] P.K. Davies a A. Navrotsky: J. Solid State Chem. **46**, 1 (1983).
[84OLE] R.W. Olesinski a G.J. Abbaschian: Bull. Alloy Phase Diagrams **5**, 180 (1984).
[85ASEa] T. Aselage a kol.: CALPHAD **9**, 227 (1985).
[85ASEb] T.L. Aselage a T.J. Anderson: High. Temp. Sci. **20**, 207 (1985).
[85NAY] A.A. Nayeb-Hashemi a J.B. Clark: Bull. Alloy Phase Diagrams **6**, 238 (1985).
[85OLEa] R.W. Olesinski a G.J. Abbaschian.: Bull. Alloy Phase Diagrams **6**, 258 (1985).
[85OLEb] R.W. Olesinski a kol.: Bull. Alloy Phase Diagrams **6**, 362 (1985).
[86BER] B. Bergman a J. Agren: J. Am. Ceram. Soc. **69**, 877 (1986).
[87SAN] J. Sangster a A.D. Pelton: J. Phys. Chem. Ref. Data **16**, 509 (1987).
[89FER] A. Fernández Guillermet: CALPHAD **13**, 1 (1989).
[89ISH] K. Ishida a kol.: J. Cryst. Growth **98**, 140 (1989).
[89VAH] C. Vahlas a kol.: CALPHAD **13**, 273 (1989).
[90DES] Y. Dessureault a kol.: J. Phys. Chem. Ref. Data **19**, 1149 (1990).
[91KAU] L. Kaufman: CALPHAD **15**, 261 (1991).
[92OHT] H. Ohtani a kol.: J. Alloys Comp. **182**, 103 (1992).