

Species Formula	Temper.	Amount	Amount	Add Step	Secondary Step	Remove Step
	°C	kmol	%	kmol	kmol	%
Phase 1		999815.7	100	0	0	
H2O(g)	25	942930.14	94.3103913			
CO2(g)	25	16765.08	1.67681736			
SO2(g)	25	20309.40	2.03131448			
HCl(g)	25	1712.09	0.17124005			
HBr(g)	25	0.73	7.2779E-05			
HI(g)	25	0.30	3.0076E-05			
HF(g)	25	744.68	0.07448152			
NH3(g)	25	2.93	0.00029295			
H2(g)	25	5677.39	0.56784363			
N2(g)	25	11077.23	1.10792714			
CH4(g)	25		0			
CO(g)	25	561.85	0.05619535			
COS(g)	25					
C2H6(g)	25		0			
C3H8(g)	25		0			
C6H6(BZEg)	25		0			
HS(g)	25		0			
H2S(g)	25		0			
H2S2(g)	25		0			
HSO(g)	25		0			
H2SO(g)	25		0			
H2SO4(g)	25		0			
S2(g)	25		0			
S3(g)	25		0			
S4(g)	25		0			
S5(g)	25		0			
S6(g)	25		0			
S7(g)	25		0			
S8(g)	25		0			
SO3(g)	25		0			
S2O(g)	25		0			
SOH(g)	25		0			
HN3(g)	25		0			
HNO(g)	25		0			
HNO2(g)	25		0			
HNO3(g)	25		0			
N3(g)	25		0			
NH(g)	25		0			
NH2(g)	25		0			
N2H2(g)	25		0			
N2H4(g)	25		0			
NH2OH(g)	25		0			
NO(g)	25		0			
NO2(g)	25		0			
NO3(g)	25		0			
N2O(g)	25		0			
N2O2(g)	25		0			
N2O3(g)	25		0			
Br(g)	25		0			
Br2(g)	25		0			
BrCl(g)	25		0			
BrF(g)	25		0			
BrF3(g)	25		0			
BrF5(g)	25		0			

BrO(g)	25		0		
BrO2(g)	25		0		
BrOO(g)	25		0		
BrO3(g)	25		0		
Br2O(g)	25		0		
BrBrO(g)	25		0		
BrOBr(g)	25		0		
Cl(g)	25		0		
Cl2(g)	25		0		
Cl3(g)	25		0		
Cl4(g)	25		0		
F(g)	25		0		
F2(g)	25		0		
I2(g)	25		0		
IBr(g)	25		0		
ICl(g)	25		0		
IF(g)	25		0		
IO(g)	25		0		
IO2(g)	25		0		
H4SiO4(g)	25		0		
K(g)	25	18.69054	0.0018694		
KBr(g)	25		0		
K2Br2(g)	25		0		
KCl(g)	25		0		
K2Cl2(g)	25		0		
KF(g)	25		0		
KI(g)	25		0		
K2I2(g)	25		0		
KOH(g)	25		0		
K2(OH)2(g)	25		0		
Na(g)	25	10.33043	0.00103323		
NaBr(g)	25		0		
Na2Br2(g)	25		0		
NaCl(g)	25		0		
Na2Cl2(g)	25		0		
Na3Cl3(g)	25		0		
NaF(g)	25		0		
NaI(g)	25		0		
Na2I2(g)	25		0		
NaOH(g)	25		0		
O2(g)	25		0		
O3(g)	25		0		
OBBrO(g)	25		0		
OCIO(g)	25		0		
OF(g)	25		0		
OF2(g)	25		0		
O2F(g)	25		0		
OFO(g)	25		0		
O2F2(g)	25		0		
OH(g)	25		0		
OIO(g)	25		0		
Si2(g)	25	0.256	2.5605E-05		
SiF4(g)	25		0		
Al(g)	25	0.76	7.6014E-05		
AlClF2(g)	25		0		
AlCl(OH)2(g)	25		0		
AlCl2(OH)(g)	25		0		
AlCl2F(g)	25		0		
AlF3(g)	25		0		

AlF(OH)2(g)	25		0		
AlF2(OH)(g)	25		0		
AlOF(g)	25		0		
Al(OH)3(g)	25		0		
KAlF4(g)	25		0		
NaAlF4(g)	25		0		
Fe(g)	25	0.3375	3.3756E-05		
FeCl2(g)	25		0		
FeCl3(g)	25		0		
Fe2Cl4(g)	25		0		
FeF3(g)	25		0		
Fe(OH)2(g)	25		0		
Cd(g)	25	0.0087	8.7016E-07		
CdCl2(g)	25		0		
CdI2(g)	25		0		
Cd(OH)(g)	25		0		
Cd(OH)2(g)	25		0		
W(g)	25	0.001371	1.3709E-07		
WH2O4(g)	25		0		
WO2Cl2(g)	25		0		
Tl(g)	25	0.006359	6.3602E-07		
TlO(g)	25		0		
Te(g)	25	0.001763	1.7636E-07		
TeH(g)	25		0		
TeI2(g)	25		0		
Mo(g)	25	0.046173	4.6182E-06		
MoF2O2(g)	25		0		
MoF3O(g)	25		0		
MoO2(OH)2(g)	25		0		
Re(g)	25	0.1	1.0002E-05		
ReBr3(g)	25		0		
ReCl3(g)	25		0		
ReI3(g)	25		0		
ReO2(g)	25		0		
ReO3(g)	25		0		
Re2O6(g)	25		0		
Re2O7(g)	25		0		
Ca(g)	25	1.521000	0.00015213		
CaBr2(g)	25		0		
CaBrOH(g)	25		0		
CaCl2(g)	25		0		
CaCl(OH)(g)	25		0		
CaF2(g)	25		0		
CaF(OH)(g)	25		0		
Ca(OH)2(g)	25		0		
Mg(g)	25	0.903704	9.0387E-05		
MgBr2(g)	25		0		
MgCl2(g)	25		0		
Mg2Cl4(g)	25		0		
MgClF(g)	25		0		
MgF2(g)	25		0		
Mg2F4(g)	25		0		
MgOH(g)	25		0		
Mg(OH)2(g)	25		0		
Cu(g)	25	0.015182	1.5185E-06		
CuBr(g)	25		0		
CuCl(g)	25		0		
CuCl2(g)	25		0		

Cu ₂ Cl ₂ (g)	25		0		
Cu ₃ Cl ₃ (g)	25		0		
Cu ₄ Cl ₄ (g)	25		0		
CuH(g)	25		0		
CuI(g)	25		0		
AuS(g)	25		0		
AuCl(g)	25		0		
Au(g)	25	0.1	1.0002E-05		
Mn(g)	25	0.008771	8.7726E-07		
MnCl(g)	25		0		
MnCl ₂ (g)	25		0		
Pb(g)	25	0.066544	6.6556E-06		
PbCl(g)	25		0		
PbCl ₂ (g)	25		0		
PbCl ₄ (g)	25		0		
PbI(g)	25		0		
PbO(g)	25		0		
PbS(g)	25		0		
As(g)	25	0.449279	4.4936E-05		
As ₂ (g)	25		0		
As ₄ (g)	25		0		
AsCl ₃ (g)	25		0		
AsI(g)	25		0		
AsO(g)	25		0		
AsO ₂ (g)	25		0		
As ₂ O ₃ (g)	25		0		
As ₄ O ₆ (g)	25		0		
AsS(g)	25		0		
As ₂ S ₃ (g)	25		0		
As ₄ S ₄ (g)	25		0		
Sn(g)	25	0.035029	3.5035E-06		
SnCl(g)	25		0		
SnCl ₂ (g)	25		0		
SnO(g)	25		0		
SnS(g)	25		0		
Ti(g)	25	0.006359	6.3602E-07		
TiCl ₄ (g)	25		0		
TiCl ₂ O(g)	25		0		
TiO ₂ (g)	25		0		
Zr(g)	25	0.010974	1.0976E-06		
ZrCl ₄ (g)	25		0		
ZrO ₂ (g)	25		0		
V(g)	25	0.024529	2.4534E-06		
VO ₂ (g)	25		0		
VOCl(g)	25		0		
VOCl ₂ (g)	25		0		
VOCl ₃ (g)	25		0		
Ni(g)	25	0.034651	3.4657E-06		
NiBr(g)	25		0		
NiCl(g)	25		0		
NiCl ₂ (g)	25		0		
Ni ₂ Cl ₄ (g)	25		0		
NiI(g)	25		0		
NiS(g)	25		0		
Zn(g)	25	0.194126	1.9416E-05		
ZnCl(g)	25		0		
ZnCl ₂ (g)	25		0		
In(g)	25	0.007181	7.1823E-07		
InBr(g)	25		0		

InCl(g)	25		0		
InCl2(g)	25		0		
InCl3(g)	25		0		
InI(g)	25		0		
Bi(g)	25	1.12E-02	1.1875E-06		
Bi2(g)	25		0		
Bi3(g)	25		0		
Bi4(g)	25		0		
BiBr(g)	25		0		
BiBr3(g)	25		0		
BiCl(g)	25		0		
BiCl2(g)	25		0		
BiCl3(g)	25		0		
BiF(g)	25		0		
BiF2(g)	25		0		
BiF3(g)	25		0		
BiH(g)	25		0		
BiH3(g)	25		0		
BiI(g)	25		0		
BiI3(g)	25		0		
BiO(g)	25		0		
Bi2O2(g)	25		0		
Bi2O3(g)	25		0		
Bi3O4(g)	25		0		
Bi4O6(g)	25		0		
Bi(OH)3(g)	25		0		
BiS(g)	25		0		
(BiS)2(g)	25		0		
Bi2S3(g)	25		0		
KAlSi3O8	25		0		
Mg2SiO4	25		0		
Fe2SiO4(F)	25				
Mg2Si2O6(E)	25		0		
CaMgSiO4	25				
CaSiO3	25		0		
CaSO4	25		0		
CaMgSi2O6	25		0		
*2CaO*5MgO*8SiO2*H2O	25		0		
TiO2	25		0		
ZrSiO4	25		0		
V2O3	25		0		
CaMoO4	25		0		
MoS2	25		0		
CaWO4	25		0		
MnSiO3	25		0		
Fe3O4	25		0		
Fe2O3(H)	25		0		
FeS(P)	25		0		
FeS2	25		0		
NiS	25		0		
Cu1.8S	25				
CuFeS2	25		0		
Cu5FeS4	25		0		
ZnS	25		0		
CdS	25		0		
NaAlSi3O8	25		0		
*3CaO*Al2O3*3SiO2	25		0		
CaO*Al2O3*2SiO2	25		0		
SiO2(Q)	25		0		

SnO2	25	0		
PbS	25	0		
Au	25	0		
KReO4	25	0		
CdO	25	0		
CdIn2S4	25	0		
Fe3Al2Si3O12	25	0		
Ca3Fe2Si3O12	25	0		
NaFe(SiO3)2	25	0		
ReBr3	25	0		
ReCl3	25	0		
ReCl4	25	0		
ReCl5	25	0		
Re3Cl9	25	0		
ReO2	25	0		
ReO3	25	0		
ReO4	25	0		
Re2O3	25	0		
Re2O7	25	0		
ReS2	25	0		
ReS3	25	0		
Re2S7	25	0		
Tl	25	0		
TlCl	25	0		
TlCl3	25	0		
TlS	25	0		
TlS2	25	0		
Tl2S3	25	0		
Tl4S3	25	0		
Tl2O	25	0		
Tl2O3	25	0		
Tl2SO4	25	0		
Te	25	0		
TeBr4	25	0		
TeCl2	25	0		
TeCl4	25	0		
TeF4	25	0		
Tel4	25	0		
TeO	25	0		
TeO2	25	0		
As	25	0		
As2O4	25	0		
As2O5	25	0		
As2S2	25	0		
As2S3	25	0		
As2S5	25	0		
As4S3	25	0		
As4S4	25	0		
As4S6	25	0		
As4O6	25	0		
AsS	25	0		
Bi	25	0		
BiBr3	25	0		
BiCl	25	0		
BiCl3	25	0		
BiF3	25	0		
BiF4	25	0		
Bil	25	0		

BiI3	25		0			
BiO	25		0			
Bi2O3	25		0			
Bi8O11	25		0			
BiOBr	25		0			
Bi3O4Br	25		0			
Bi4O5Br2	25		0			
Bi24O31Br10	25		0			
BiOCl	25		0			
Bi3O4Cl	25		0			
Bi4O5Cl2	25		0			
Bi12O17Cl2	25		0			
Bi24O31Cl10	25		0			
Bi(OH)3	25		0			
BiOI	25		0			
Bi4O5I2	25		0			
Bi5O7I	25		0			
Bi7O9I3	25		0			
Bi2S3	25		0			
Bi2(SO4)3	25		0			

