

Table VIII-9: Partition of elements between gas and glass phases [ $\log(\text{gas}/\text{glass})$ ], and major species in gas and glass phases during the burning of average coal at 1500 °C and one bar pressure.

	$\log(\text{gas}/\text{glass})$	Major species of elements in the gas and glass phases		$\log(\text{gas}/\text{glass})$	Major species of elements in the gas and glass phases
Ag	3.14	Ag(g), AgCl(g); AgCl	Mn	-5.30	MnO(g), MnCl <sub>2</sub> (g); MnSiO <sub>3</sub>
Al	-5.60	AlOF <sub>2</sub> (g); Al <sub>2</sub> O <sub>3</sub> , feldspars	Mo	-0.2	H <sub>2</sub> MoO <sub>4</sub> (g); CaMoO <sub>4</sub> , Na <sub>2</sub> MoO <sub>4</sub>
As	1.28	AsO(g); AlAsO <sub>4</sub>	Na	-0.76	NaCl(g); NaAlSi <sub>3</sub> O <sub>8</sub>
B	2.99	HBO <sub>2</sub> (g), NaBO <sub>2</sub> (g); CaB <sub>2</sub> O <sub>4</sub>	Nb	-5.33	NbO <sub>2</sub> (g); NbO <sub>2</sub> , Nb <sub>2</sub> O <sub>5</sub>
Ba	-5.16	Ba(OH) <sub>2</sub> (g); BaSiO <sub>3</sub>	Ni	-2.43	Ni(OH) <sub>2</sub> (g); NiO
Be	-2.15	Be(OH) <sub>2</sub> (g); BeO, BeAl <sub>2</sub> O <sub>4</sub>	P	-2.05	PO <sub>2</sub> (g); Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
Bi	2.25	Bi(g); BiO	Pb	0.69	PbO(g); PbSiO <sub>3</sub> , PbO
Br	2.26	Br(g), NaBr(g); KBr, NaBr	Rb	3.94	RbCl(g); RbCl
Ca	-7.59	Ca(OH) <sub>2</sub> (g); CaSiO <sub>3</sub> , CaAl <sub>2</sub> SiO <sub>6</sub>	Rh	7.8	RhO <sub>2</sub> (g); RhO
Cd	2.81	Cd(g); CdSiO <sub>3</sub> , CdO	S	8.13	SO <sub>2</sub> (g); FeS
Cl	1.9	KCl(g), NaCl(g); KCl, NaCl	Sb	6.9	SbS(g), SbO(g); SbO <sub>2</sub> , Sb <sub>2</sub> O <sub>3</sub>
Co	-3.51	CoCl <sub>2</sub> (g); Co <sub>2</sub> SiO <sub>4</sub>	Sc	-10.2	ScO(g); Sc <sub>2</sub> O <sub>3</sub>
Cr	-4.75	CrO <sub>2</sub> (g); CrO <sub>2</sub>	Se	6.41	SeO(g), SeO <sub>2</sub> (g); FeSe <sub>1.33</sub>
Cs	2.18	CsCl(g); CsCl	Si	-6.89	SiO <sub>2</sub> (g); SiO <sub>2</sub>
Cu	0.23	Cu(g), CuCl(g); CuO	Sn	-0.65	SnO(g); SnO <sub>2</sub>
Eu	-7.99	EuCl <sub>3</sub> (g); Eu <sub>2</sub> O <sub>3</sub>	Sr	-6.06	Sr(OH) <sub>2</sub> (g); SrSiO <sub>3</sub>
F	1.16	KF(g), NaF(g); NaF, KF	Ta	-6.18	TaO <sub>2</sub> (g); Ta <sub>2</sub> O <sub>5</sub>
Fe	-5.52	Fe(OH) <sub>2</sub> (g); FeO, FeSiO <sub>3</sub>	Te	1.15	TeO(g); TeO, Te
Ga	-1.12	GaCl(g); Ga <sub>2</sub> O <sub>3</sub>	Th	-8.93	ThO <sub>2</sub> (g); ThO <sub>2</sub>
Ge	1.50	GeO(g); GeO <sub>2</sub>	Ti	-7.2	TiO <sub>2</sub> (g); TiO <sub>2</sub> , FeTiO <sub>3</sub> , CaTiO <sub>3</sub>
Hg	8.88	Hg(g); HgO	Tl	3.53	TlCl(g), Tl(g); TlCl
I	3.82	I(g); I, KI, NaI	U	-10.5	UO <sub>2</sub> (g); U <sub>3</sub> O <sub>5</sub>
In	3.9	InCl(g); In <sub>2</sub> O <sub>3</sub>	V	-2.48	VO <sub>2</sub> (g); VO <sub>2</sub>
K	-2.36	KCl(g); KAlSi <sub>3</sub> O <sub>8</sub>	W	-1.62	H <sub>2</sub> WO <sub>4</sub> (g); CaWO <sub>4</sub>
La	-9.55	LaCl <sub>3</sub> (g); La <sub>2</sub> Al <sub>2</sub> O <sub>6</sub>	Zn	-0.01	Zn(g); ZnO, ZnSiO <sub>3</sub>
Li	1.26	Li(OH)(g), LiCl(g); LiAlSiO <sub>4</sub>	Zr	-11.3	ZrO <sub>2</sub> (g); ZrO <sub>2</sub> , ZrSiO <sub>4</sub>
Mg	-4.58	Mg(OH) <sub>2</sub> (g); MgSiO <sub>3</sub>			

Note: the interpolated  $\log(\text{gas}/\text{glass})$  value for Cs and Rb is about -3, if both exist as aluminosilicate components in glass phase.