

Table VIII-10: Logarithm of enrichment factors of excess elements, log Ex, in volcanic gas relative to volcanic rocks from Kilauea (Olmez et al., 1986), Etna (Buet-Menard et al., 1978), Merapi (Symonds et al., 1987), and Kudryavy (Taran et al., 1995) volcanoes.

	Kilauea /basalt	Etna /crust	Merapi /andesite	Kudryavy /andesite		Kilauea /basalt	Etna /crust	Merapi /andesite	Kudryavy /andesite
Ag	3.94	3.80	5.53		Li	(2.2)			2.41
As	4.94	3.77	5.13	4.21	Mg	(0.3)		2.30	-0.46
Al	-1.02	0.47	0.47	-0.54	Mn	0.28	1.16	2.34	
Au	5.24	4.65			Mo	3.14		6.24	3.71
B	(6.1)			4.71	Na	1.53	1.79	3.66	1.29
Ba	1.11		1.28	1.29	Ni	1.83	1.71		2.91
Bi	(6.9)		7.99	5.11	P	(1.0)		1.89	1.39
Br	5.64	5.10	6.82	4.31	Pb	(3.4)	3.40	6.53	4.11
Ca	(0.8)	1.32	*	*	Rb	1.93		4.60	1.70
Cd	5.34	4.19	7.48	4.51	Re	(6.9)		8.23	5.41
Ce	0.75			0.86	S	6.54	4.48	5.68	
Cl	6.14	5.18	5.68	6.41	Sb	2.74	3.43	3.38	3.61
Co	0.42	1.16	2.08	0.74	Sc	(-1.0)*	*	0.00	2.31
Cr	1.32	0.70	2.14	1.50	Se	6.94	5.85	9.06	5.01
Cs	2.24	2.37	6.12	1.80	Si	(0.3)		1.77	1.07
Cu	2.24	2.85	3.93	2.21	Sm	0.09			
Eu	0.41				Sn	5.14		5.76	3.51
F	5.34			4.41	Sr	(0.3)			0.02
Fe	0.29	0.13	2.60	0.35	Tb	0.54			
Ge	(2.0)			2.71	Te	(6.9)			5.51
Hf	(-1.0)			2.11	Th	0.82			
Hg	4.14	4.72		3.91	Ti	-0.11		2.30	-1.63
I	(6.9)			5.51	Tl	(4.9)			4.21
In	3.90		6.62		V	1.21	0.67	2.90	
Ir	4.74				W	2.34		6.34	3.51
K	1.73	2.23	3.86	1.70	Zn	2.24	3.32	5.21	2.91
La	0.33				Zr	(-1.0)			2.61

Note: values in the parentheses are interpolated estimates and are less reliable. The element (Ca or Sc) with asterisk is used for normalization.