

Table V-1b. Selected mineral distribution coefficients (d_i) of REE in basaltic rocks (B), rhyolitic rocks (R) (Arth, 1976); and in high-silica rhyolite (H) (Mahood and Hidreth, 1983).

	olivine		orthopyroxene			clinopyroxene			plagioclase		garnet	hornblende	
	(B)	(H)	(B)	(R)	(H)	(B)	(R)	(H)	(B)	(R)	(B)	(B)	(B)
La		23			18			24					
Ce	0.0069	24	0.024	0.15	16	0.15	0.50	22	0.120	0.27	0.028	0.20	1.5
Nd	0.0066	14	0.033	0.22	04	0.31	1.11	17	0.081	0.21	0.068	0.33	4.3
Sm	0.0066	8.4	0.054	0.27	9.3	0.50	1.67	13	0.067	0.13	0.29	0.52	7.8
Eu	0.0068	5.8	0.054	0.17	3.3	0.51	1.56	11	0.340	2.15	0.49	0.59	5.1
Gd	0.0077		0.091	0.34		0.61	1.85		0.063	0.097	0.97	0.63	10
Tb		2.9			6.3			6.1					
Dy	0.0096	3.3	0.15	0.46	4.4	0.68	1.93	4.8	0.055	0.064	3.17	0.64	13
Er	0.0110		0.23	0.65		0.65	1.80		0.063	0.055	6.56	0.55	12
Yb	0.0114	2.0	0.34	0.86	2.6	0.62	1.58	5.5	0.067	0.049	11.5	0.49	8.4
Lu	0.0160	2.2	0.42	0.90	3.3	0.56	1.54	7.2	0.060	0.046	11.9	0.43	5.5

	K-feldspar		phlogopite		biotite		zircon		apatite	sph.	mag.	ilm.	all.
	(R)	(H)	(B)	(R)	(R)	(H)	(R)	(H)	(R)	(R)	(H)	(H)	(H)
La		0.110				3.6		27			32	1.30	2830
Ce	0.044	0.095	0.034	0.23	0.32	3.5	2.6	24	35	53	26	1.20	2490
Nd	0.025	0.093	0.032	0.34	0.29	2.7	2.2	22	57	88	18	0.96	1840
Sm	0.018	0.046	0.031	0.39	0.26	1.8	3.1	18	63	102	13	0.68	980
Eu	1.130	2.2	0.030	0.50	0.24	0.87	3.1	12	30	101	7.2	0.40	100
Gd	0.011		0.030	0.35	0.28		12		56	102			
Tb		0.022				1.20		37			3.7	0.36	310
Dy	0.006	0.023	0.030	0.20	0.29	0.92	46	95	61	81	2.5	0.37	150
Er	0.006		0.034	0.17	0.35		135		37	59			
Yb	0.012	0.018	0.042	0.17	0.44	0.69	270	490	24	37	1.3	0.55	37
Lu	0.006	0.014	0.046	0.21	0.33	0.80	320	635	20	27	1.4	0.74	44

Notice: sph = sphene, mag. = magnetite, ilm.= ilmenite, and all. = allanite.