

Table 4. Chemical composition of amphiboles. Mineral abbreviations according to Siivola and Schmid (2007) with the following exceptions: brAm = brown amphibole; grAm = green amphiboles; blAm = blue amphibole; bl-grAm = blue-green amphibole.

Sample	MC77	MC77	MC70	MC70	MC70	MC81	MC81	MC81	MC81	MC8132	MC8133	MC81	MC81	MC81
An.#	91	93	143	130	121	8	13	14	24			35	42	204
Occurrence	grAm	brAm ps. on Cpx	brAm	bl-grAm	pale green	colourless, between brAm and blAm	colourless	colourless, between brAm and blAm	colourless (rim of brAm)	colourless/blA m	grAm (core)	rim of grAm #33	colourless	brAm pseudomorph after Cpx
Ox. wt%														
SiO ₂	45.49	44.92	39.84	44.52	46.58	53.88	55.14	55.14	55.14	55.73	50.36	55.13	54.52	48.57
TiO ₂	0.08	2.31	0.04	0.155	0.554	0.03	0	0.02	0.03	0	0.48	0.05	0.05	1.24
Al ₂ O ₃	11.05	8.93	14.59	12.27	8.01	0.77	0.7	0.68	0.63	2.52	5.9	0.61	0.66	7.8
Cr ₂ O ₃	0	0	0.04	0.022	0.017	0	0	0.03	0	0.08	0.01	0.01	0	0.04
FeO	14.47	16.16	29.33	17.83	22.12	17.97	16.52	16.6	15.8	17.06	13.48	16	16.98	11.44
MnO	0.28	0.3	0.66	0.462	0.833	0.25	0.22	0.22	0.21	0.13	0.16	0.11	0.2	0.3
MgO	14.09	12.58	3.93	10.02	9.09	12.74	13.29	13.33	14.01	11.93	14.53	14.2	13.2	16.16
CaO	10.57	10.23	8.8	11.54	10.46	12.31	12.23	12.15	11.82	7.99	11.58	12.41	12.41	10.77
Na ₂ O	2.98	2.92	3.35	2.39	1.89	0.35	0.48	0.43	0.48	3.62	1.44	0.34	0.34	2.52
K ₂ O	0.21	0.48	0.13	0.125	0.051	0.05	0.05	0.06	0.05	0.13	0.16	0.02	0.04	0.23
Tot. oxides	99.22	98.83	100.71	99.334	99.606	98.35	98.62	98.66	98.17	99.19	98.1	98.89	98.4	99.06
Si	6.434	6.51	5.883	6.477	6.788	7.866	7.98	7.972	7.948	7.968	7.214	7.916	7.929	6.816
Al (iv)	1.566	1.49	2.117	1.523	1.212	0.133	0.02	0.028	0.052	0.032	0.786	0.084	0.071	1.184
T	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Al (vi)	0.276	0.035	0.422	0.581	0.164	0	0.099	0.087	0.055	0.393	0.21	0.019	0.043	0.106
Ti	0.008	0.252	0.004	0.017	0.061	0.003	0	0.003	0.003	0	0.052	0.006	0.006	0.13
Cr	0	0	0.004	0.003	0.002	0	0	0.003	0	0.009	0.001	0.001	0	0.004
Fe ⁽³⁺⁾	1.217	0.866	1.915	0.61	1.115	0.167	0	0.039	0.197	0.156	0.486	0.137	0.045	0.848
Fe ⁽²⁺⁾	0.495	1.092	1.706	1.559	1.581	2.026	1.999	1.968	1.707	1.883	1.128	1.784	2.02	0.495
Mn	0.034	0.037	0.083	0.057	0.103	0.031	0.027	0.027	0.026	0.016	0.019	0.014	0.024	0.036
Mg	2.971	2.718	0.865	2.173	1.975	2.773	2.867	2.873	3.011	2.543	3.103	3.04	2.862	3.381
C	5	5	5	5	5	5	4.993	5	5	5	5	5	5	5
Ca	1.602	1.588	1.392	1.799	1.633	1.925	1.896	1.882	1.825	1.224	1.777	1.909	1.934	1.619
Na	0.398	0.412	0.608	0.201	0.367	0.075	0.104	0.118	0.133	0.776	0.223	0.091	0.066	0.381
B	2	2	2	2	2	2	2	2	1.958	2	2	2	2	2
Na	0.419	0.409	0.351	0.473	0.167	0.026	0.03	0.001	0	0.227	0.177	0.003	0.03	0.305
K	0.037	0.088	0.024	0.023	0.009	0.01	0.008	0.01	0.009	0.023	0.03	0.004	0.007	0.04
A	0.456	0.497	0.375	0.496	0.177	0.035	0.038	0.012	0.009	0.25	0.207	0.007	0.037	0.345
Total cations	15.456	15.497	15.375	15.496	15.177	15.035	15.031	15.012	14.967	15.25	15.207	15.007	15.037	15.345
	Ts	Mg-Hbl	Fe2-Ts	Ts	Mg-Hbl	Act	Act	Act	Act	Act	Mg-Hbl	Act	Act	Mg-Hbl