

Chemical analyses of amphibole (values in wt%). N.d. = Not detected

<i>Sample</i>	<i>MC81</i>	<i>MC77</i>	<i>MC77</i>	<i>MC77</i>	<i>MC77</i>	<i>MC70</i>	<i>MC70</i>	<i>MC70</i>	<i>MC81</i>	<i>MC70</i>	<i>MC40</i>
<i>N.</i>	215	59	67	88	95	120	125	130	218	131	03
<i>Analysis Occurrences</i>	br Am* after Cpx	br Am* after Cpx	br Am* after Cpx	gr Am*	gr Am*	br Am*	br Am* after Cpx	bl/gr Am*	Bl Am*	bl/gr Am*	gr Am*
<i>Oxides (wt%)</i>											
<i>SiO₂</i>	42.12	43.47	42.40	43.71	45.64	43.25	41.96	44.52	55.94	44.44	50.42
<i>TiO₂</i>	3.64	3.08	3.50	0.75	0.07	3.32	3.64	0.15	0.02	0.14	0.35
<i>Al₂O₃</i>	11.57	10.22	10.71	11.70	11.06	10.37	12.31	12.27	4.64	12.20	6.64
<i>Cr₂O₃</i>	n.d.	n.d.	n.d.	n.d.	n.d.	0.01	n.d.	0.02	0.01	0.03	0.01
<i>FeO</i>	14.46	17.62	19.28	17.34	13.36	15.90	14.66	17.83	21.06	17.96	10.23
<i>MnO</i>	0.26	0.32	0.31	0.28	0.27	0.30	0.29	0.46	0.06	0.50	0.28
<i>MgO</i>	11.86	10.64	9.75	11.68	14.49	11.74	11.96	10.02	8.19	9.89	17.55
<i>CaO</i>	10.87	10.54	10.52	10.67	10.73	10.44	11.16	11.54	1.17	11.37	10.97
<i>Na₂O</i>	3.42	2.94	3.18	2.94	2.83	3.96	3.46	2.39	6.85	2.49	1.78
<i>K₂O</i>	0.37	0.41	0.43	0.25	0.22	0.09	0.07	0.13	0.03	0.15	0.25
Total	98.58	99.25	100.09	99.33	98.68	99.38	99.64	99.37	98.05	99.26	98.54
<i>Group Subgroup of (OH,F,Cl) Species</i>	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Ca	OH,F,Cl Na	OH,F,Cl Ca	OH,F,Cl Ca
	Ti-Fe-sadanagait e	Ti-Fe-sadanagait e	Ti-Fe-sadanagait e	Fe-tschermakite e	Fe-tschermakite e	Ti-Fe-sadanagait e	Ti-Fe-sadanagait e	Fe-tschermakite e	Mg-riebeckite e	Fe-tschermakite e	Mg-Fe-hornblende e
<i>Si</i>	6.101	6.245	6.091	6.182	6.402	6.207	6.014	6.278	7.925	6.279	6.991
<i>Al^(iv)</i>	1.899	1.730	1.813	1.818	1.598	1.754	1.982	1.720	0.071	1.720	1.009
T subtotal	8.000	8.000	8.000	8.000	8.000	8.000	8.001	8.000	7.999	8.001	8.000
<i>Al^(vi)</i>	0.077	0.000	0.000	0.132	0.230	0.000	0.099	0.319	0.704	0.312	0.076
<i>Ti</i>	0.397	0.308	0.282	0.080	0.007	0.319	0.393	0.016	0.002	0.015	0.037
<i>Cr</i>	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.002	0.001	0.003	0.001
<i>Fe³⁺</i>	1.752	2.117	2.316	2.051	1.567	1.908	1.758	2.030	1.242	2.059	1.186
<i>Fe²⁺</i>	0.000	0.000	0.000	2.463	0.000	0.000	0.000	0.074	1.254	0.063	0.000
<i>Mg</i>	2.561	2.279	2.088	2.463	3.030	2.512	2.557	2.107	1.730	2.083	3.628
C subtotal	5.000	4.743	4.724	4.760	4.866	4.776	4.842	4.603	4.940	4.596	4.967

<i>Mn</i> ²⁺	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Fe</i> ²⁺	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Ca</i>	1.687	1.622	1.619	1.617	1.613	1.605	1.715	1.744	0.178	1.721	1.630
<i>Na</i>	0.313	0.308	0.381	0.383	0.387	0.395	0.285	0.256	1.822	0.279	0.370
<i>B subtotal</i>	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
<i>Na</i>	0.648	0.441	0.505	0.423	0.382	0.707	0.677	0.397	0.060	0.403	0.108
<i>K</i>	0.068	0.075	0.079	0.045	0.039	0.016	0.013	0.023	0.005	0.027	0.044
<i>A subtotal</i>	0.716	0.516	0.584	0.468	0.421	0.723	0.690	0.420	0.065	0.430	0.152
<i>Sum T,C,B,A</i>	15.535	15.259	15.308	15.228	15.287	15.499	15.533	15.023	15.004	15.027	15.119

Chemical analyses of amphibole continued.....

<i>Sample</i>	<i>MC81</i>	<i>MC77</i>	<i>MC77</i>	<i>MC77</i>	<i>MC77</i>	<i>MC70</i>	<i>MC70</i>	<i>MC70</i>	<i>MC81</i>	<i>MC70</i>	<i>MC70</i>
<i>N. Analysis Occurences</i>	207	68	71	89	72	143	155	126	208	156	162
	bl Am*	br Am* after Cpx	br Am* after Cpx	gr Am*	br Am* after Cpx	br Am*	gr Am*	gr Am*	bl Am*	gr Am*	br Am
<i>Oxides (wt%)</i>											
<i>SiO₂</i>	55.83	43.08	45.77	43.67	46.21	39.84	53.14	45.97	56.41	52.49	42.37
<i>TiO₂</i>	0.03	3.82	3.17	0.60	3.13	0.04	0.08	0.10	0.03	0.08	2.94
<i>Al₂O₃</i>	6.20	10.26	8.59	11.76	8.42	14.59	2.52	10.30	6.07	3.03	12.03
<i>Cr₂O₃</i>	0.01	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.01
<i>FeO</i>	19.21	16.74	15.03	16.67	13.88	29.33	18.96	17.92	19.50	18.92	15.66
<i>MnO</i>	0.07	0.29	0.27	0.20	0.26	0.66	0.59	0.57	0.07	0.67	0.21
<i>MgO</i>	8.51	11.12	12.88	11.57	13.52	3.93	12.13	10.87	8.36	11.68	11.78
<i>CaO</i>	2.54	10.51	10.29	11.06	10.53	8.80	11.77	11.55	2.20	11.89	10.98
<i>Na₂O</i>	6.36	3.15	2.79	2.94	2.63	3.35	0.39	2.18	6.49	0.48	3.73
<i>K₂O</i>	0.10	0.43	0.48	0.34	0.45	0.13	0.04	0.11	0.07	0.04	0.07
Total	98.87	99.40	99.29	98.83	99.09	100.77	99.69	99.64	99.28	99.33	99.81
<i>Group Subgroup of (OH,F,Cl) Species</i>	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl	OH,F,Cl
	Na Mg-riebeckite	Ca Ti-Fe-sadanagaite	Ca Ti-Fe-tschemakite	Ca Fe-sadanagaite	Ca Ti-Fe-tschemakite	Na-Ca Fe-barroisite	Ca actinolite	Ca Fe-tschemakite	Na Mg-riebeckite	Ca Mg-Fe-hornblende	Ca Ti-Fe-sadanagaite
<i>Si</i>	7.824	6.204	6.516	6.203	6.574	5.746	7.666	6.474	7.878	7.599	6.048
<i>Al^(iv)</i>	0.176	1.741	1.441	1.797	1.412	2.254	0.334	1.526	0.122	0.401	1.952
T subtotal	8.000	7.999	8.000	8.000	8.001	8.000	8.000	8.000	8.000	8.000	8.000
<i>Al^(vi)</i>	0.848	0.000	0.000	0.172	0.000	0.226	0.094	0.184	0.877	0.116	0.072
<i>Ti</i>	0.003	0.360	0.297	0.064	0.320	0.004	0.009	0.011	0.003	0.009	0.316
<i>Cr</i>	0.001	0.000	0.001	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.001
<i>Fe³⁺</i>	1.037	2.016	1.790	1.980	1.651	2.937	0.342	1.917	0.990	0.413	1.869
<i>Fe²⁺</i>	1.215	0.000	0.000	0.000	0.000	0.600	1.946	0.193	1.288	1.878	0.000
<i>Mg</i>	1.778	2.387	2.734	2.450	2.867	0.845	2.609	2.282	1.741	2.521	2.507

<i>C subtotal</i>	4.890	4.798	4.855	4.690	4.870	4.704	5.001	4.661	4.914	5.000	4.790
<i>Mn²⁺</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.000	0.000	0.021	0.000
<i>Fe²⁺</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Ca</i>	0.381	1.622	1.570	1.683	1.605	1.360	1.819	1.743	0.329	1.844	1.679
<i>Na</i>	1.619	0.378	0.430	0.317	0.395	0.640	0.109	0.257	1.671	0.135	0.321
<i>B subtotal</i>	2.000	2.000	2.000	2.000	2.000	2.000	1.999	2.000	2.000	2.000	2.000
<i>Na</i>	0.110	0.501	0.340	0.493	0.330	0.297	0.000	0.338	0.087	0.000	0.712
<i>K</i>	0.018	0.079	0.087	0.062	0.082	0.024	0.007	0.020	0.012	0.007	0.013
<i>A subtotal</i>	0.128	0.580	0.427	0.555	0.412	0.321	0.007	0.358	0.099	0.007	0.725
<i>Sum T,C,B,A</i>	15.018	15.377	15.282	15.245	15.283	15.025	15.007	15.019	15.013	15.007	15.515