

Appendix 3. Major element composition of representative Na-pyroxene found in the matrix or as inclusion in zircon and allanite.

wt%	Inclusions in zircon				Inclusions in allanite			In matrix			
	ZirCpx5	ZirCpx7	ZirCpx20	ZirCpx23	AlCpx5	AlCpx8	AlCpx11	MatCpx7_2	MatCpx7_6	MatCpx2_13	MatCpx3_24
SiO <sub>2</sub>	56.4	57.2	55.8	59.3	56.3	56.0	58.9	58.6	56.5	59.5	57.2
TiO <sub>2</sub>	0.3	0.2	0.4	1.0	0.8	0.6	0.3	0.6	0.6	0.0	2.9
Al <sub>2</sub> O <sub>3</sub>	12.2	17.0	11.3	21.0	14.4	11.8	21.7	22.2	11.0	25.0	10.9
Fe <sub>2</sub> O <sub>3</sub>	2.8	1.6	2.2	2.7	1.0	1.6	0.0	1.9	4.7	0.0	3.8
FeO	1.7	3.0	5.4	0.0	3.1	3.5	2.0	0.0	0.0	0.1	0.0
MnO	0.1	0.6	0.2	0.0	0.0	0.4	0.1	0.2	0.3	0.2	0.4
MgO	6.5	2.8	5.5	1.0	6.1	7.6	1.6	1.0	7.8	0.0	6.9
CaO	10.8	6.3	12.2	1.6	8.2	9.8	2.7	1.4	11.1	0.1	8.4
Na <sub>2</sub> O	8.5	11.0	7.7	14.2	9.2	7.8	12.8	14.3	8.4	15.0	9.9
Total	99.4	99.5	100.6	101.0	99.2	99.2	100.1	100.1	100.5	99.9	100.4
Atoms per formula unit											
Si	2.001	2.007	1.994	2.005	1.990	1.997	2.008	1.992	1.987	2.003	2.000
Ti	0.009	0.004	0.011	0.026	0.021	0.015	0.007	0.016	0.016	0.000	0.076
Al	0.511	0.703	0.473	0.838	0.600	0.497	0.870	0.889	0.457	0.991	0.449
Fe <sup>3+</sup>	0.076	0.042	0.058	0.070	0.027	0.043	0.000	0.049	0.125	0.000	0.100
Fe <sup>2+</sup>	0.050	0.089	0.160	0.000	0.093	0.103	0.058	0.000	0.000	0.003	0.000
Mn	0.003	0.016	0.007	0.000	0.001	0.012	0.004	0.005	0.009	0.005	0.013
Mg	0.342	0.146	0.291	0.052	0.323	0.405	0.081	0.049	0.406	0.002	0.360
Ca	0.412	0.236	0.468	0.059	0.308	0.374	0.098	0.052	0.419	0.004	0.316
Na	0.587	0.745	0.532	0.931	0.626	0.540	0.847	0.939	0.572	0.977	0.669
Total	3.99	3.99	3.99	3.98	3.99	3.99	3.97	3.99	3.99	3.99	3.98

Fe<sup>3+</sup> = Na-Al.