

Appendix TABLE S1. Miscellaneous information for magnesio-ferri-hornblende

Chemical formula	$\text{K}_{0.07}\text{Na}_{0.72}\text{Ca}_{1.82}\text{Mg}_{3.06}\text{Fe}_{1.94}\text{Si}_{6.94}\text{Al}_{1.06}\text{O}_{24}\text{Cl}_{0.11}$
Formula weight	888.41 g/mol
Temperature	296(2) K
Crystal size	0.058 × 0.078 × 0.110 mm
Crystal system	monoclinic
Space group	$C2/m$
Unit cell dimensions	$a = 9.8620(3) \text{ \AA}$ $b = 18.1060(5) \text{ \AA}$ $c = 5.30810(10) \text{ \AA}$ $\beta = 104.8480(10)^\circ$
Volume	916.17(4) \AA^3
Z	2
Density (calculated)	3.213 g/cm ³
Theta range for data collection	2.25 to 40.25°
Index ranges	$-17 \leq h \leq 17$, $-32 \leq k \leq 32$, $0 \leq l \leq 9$
Independent reflections	2953 ($R_{\text{int}} = 0.0726$)
Goodness-of-fit on F^2	1.058
Final R indices	2185 data: $I > 2\sigma(I)$, $R_1 = 0.0395$, $wR_2 = 0.0775$ all data: $R_1 = 0.0649$, $wR_2 = 0.0844$