

**Table S3.** Atomic displacement parameters ( $\text{\AA}^2$ ) for hydroxymcglassonite-(K).

Atom	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
K	0.0255 (7)	0.0255 (7)	0.0467 (15)	0	0	0
B	0.0114 (2)	0.0126 (2)	0.0159 (2)	0.00078 (14)	0	0
Si	0.0064 (3)	0.0069 (3)	0.0102 (4)	−0.0003 (2)	−0.0013 (2)	−0.0009 (3)
O1	0.0101 (8)	0.0101 (8)	0.0138 (15)	0.0008 (9)	0.0045 (7)	−0.0045 (7)
O2	0.0084 (9)	0.0143 (10)	0.0264 (12)	0.0036 (7)	−0.0013 (8)	−0.0027 (9)
O3	0.0180 (10)	0.0191 (11)	0.0105 (9)	−0.0007 (8)	−0.0020 (8)	−0.0005 (8)
O4	0.0462 (17)	0.0186 (12)	0.0235 (14)	0.0052 (11)	0.0035 (12)	−0.0033 (10)
O5	0.0075 (15)	0.0075 (15)	0.036 (4)	0	0	0