Table S1. Powder X-ray diffraction data (*d* in Å) for siligiite. Only calculated lines with *I* > 1.5 are listed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *I*obs | *d*obs | *d*calc | *I*calc | *hkl* |  | *I*obs | *d*obs | *d*calc | *I*calc | *hkl* |  | *I*obs | *d*obs | *d*calc | *I*calc | *hkl* |
| 4 | 12.681 | 12.190 | 4 | -1 0 1 |  | 31 | 2.950 | 2.968 | 4 |  0 1 6 |  | 11 | 1.710 | 1.743 | 2 | -5 4 4 |
|  |  | 9.894 | 6 |  1 0 1 |  | 2.944 | 14 |  4 0 2 |  | 1.706 | 3 | -8 0 2 |
| 100 | 9.452 | 9.374 | 100 |  0 0 2 |  | 13 | 2.860 | 2.881 | 8 |  1 3 2 |  | 1.694 | 2 | -3 1 11 |
|  |  | 8.466 | 2 |  0 1 1 |  | 2.822 | 2 |  0 3 3 |  | 18 | 1.671 | 1.685 | 2 |  5 1 7 |
|  |  | 7.730 | 3 |  1 1 0 |  |  |  | 2.707 | 2 |  1 3 3 |  | 1.672 | 6 | -4 3 9 |
| 20 | 7.507 | 7.487 | 5 | -1 1 1 |  | 53 | 2.635 | 2.634 | 23 | -1 3 4 |  | 1.668 | 2 |  6 3 3 |
| 40 | 6.751 | 6.848 | 8 |  1 1 1 |  | 2.618 | 4 | -5 1 1 |  | 24 | 1.633 | 1.647 | 3 | -6 3 7 |
| 6.665 | 18 |  2 0 0 |  |  |  | 2.597 | 2 | -3 3 1 |  | 1.639 | 3 | -7 3 4 |
|  |  | 5.128 | 3 | -2 1 2 |  | 61 | 2.577 | 2.577 | 25 |  3 3 0 |  | 1.631 | 3 |  7 3 0 |
| 15 | 4.985 | 4.947 | 11 |  2 0 2 |  | 32 | 2.526 | 2.515 | 22 |  1 3 4 |  | 1.626 | 7 |  4 3 7 |
| 20 | 4.689 | 4.744 | 2 |  0 2 0 |  |  |  | 2.474 | 2 |  4 0 4 |  | 1.616 | 3 | -3 3 10 |
| 4.687 | 2 |  0 0 4 |  | 17 | 2.426 | 2.438 | 3 | -5 0 5 |  | 52 | 1.575 | 1.605 | 2 | -8 2 3 |
| 4.585 | 5 |  1 1 3 |  | 2.418 | 9 |  0 3 5 |  | 1.588 | 2 | -7 0 9 |
| 43 | 4.334 | 4.387 | 8 |  2 1 2 |  |  |  | 2.353 | 2 |  0 4 1 |  | 1.581 | 6 |  0 6 0 |
| 4.300 | 22 | -2 0 4 |  | 41 | 2.275 | 2.344 | 2 |  0 0 8 |  | 1.576 | 2 |  0 6 1 |
| 16 | 4.071 | 4.154 | 2 | -1 2 2 |  | 2.276 | 16 | -6 0 2 |  | 1.571 | 6 | -7 3 6 |
| 4.104 | 3 | -3 1 1 |  | 2.260 | 2 | -5 2 4 |  | 1.566 | 2 |  7 0 5 |
| 24 | 3.855 | 3.916 | 8 | -2 1 4 |  | 12 | 2.230 | 2.250 | 7 | -1 3 6 |  |  |  | 1.559 | 9 |  7 3 2 |
| 3.884 | 2 | -2 2 1 |  | 2.222 | 3 |  6 0 0 |  | 9 | 1.494 | 1.500 | 3 | 0 3 11 |
| 3.788 | 2 |  2 1 3 |  |  |  | 2.202 | 2 | -6 0 4 |  | 1.487 | 4 | 3 0 11 |
|  |  | 3.744 | 2 | -2 2 2 |  | 6 | 2.139 | 2.139 | 3 |  1 3 6 |  | 8 | 1.479 | 1.478 | 2 | -4 3 11 |
|  |  | 3.694 | 2 |  2 2 1 |  | 2.130 | 2 | -1 0 9 |  | 1.474 | 3 | -7 3 8 |
| 18 | 3.528 | 3.555 | 6 | -1 1 5 |  | 11 | 2.065 | 2.065 | 4 | -5 3 2 |  | 1.469 | 3 | -3 0 13 |
| 3.493 | 7 |  2 0 4 |  |  |  | 1.904 | 2 | -7 1 3 |  | 5 | 1.431 | 1.439 | 2 |  4 3 9 |
|  |  | 3.359 | 2 | -1 2 4 |  | 31 | 1.869 | 1.875 | 8 |  3 3 6 |  | 1.435 | 2 | -7 0 11 |
|  |  | 3.333 | 2 |  4 0 0 |  | 1.869 | 5 |  2 3 7 |  | 8 | 1.408 | 1.404 | 2 | -4 6 4 |
| 37 | 3.277 | 3.298 | 10 |  3 0 3 |  | 1.854 | 8 | -3 3 8 |  | 1.393 | 2 |  4 6 2 |
| 3.234 | 8 | -3 0 5 |  |  |  | 1.814 | 2 |  6 2 3 |  | 3 | 1.354 | 1.366 | 2 | -9 3 2 |
|  |  | 3.218 | 3 |  1 1 5 |  | 14 | 1.776 | 1.787 | 2 | -6 2 7 |  | 1.333 | 2 | 10 0 0 |
|  |  | 3.144 | 2 |  4 1 0 |  | 1.779 | 2 |  6 3 1 |  | 8 | 1.299 | 1.312 | 3 | 0 3 13 |
| 42 | 3.078 | 3.125 | 7 |  0 0 6 |  | 1.764 | 6 | -2 3 9 |  | 1.299 | 3 | -6 6 2 |
| 3.077 | 3 |  1 3 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.047 | 15 | -4 0 4 |  |  |  |  |  |  |  |  |  |  |  |  |