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Li: An important component in igneous alkali amphiboles

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For deposit: Table 3

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Table 3. Atomic coordinates ( $\times 10^4$ ) and equivalent isotropic displacement parameters ( $\text{\AA}^2$ ).

| No.   | O(1) |     |      | O(2)            |      |      | O(3) |                 |      | O(4) |      |                 | O(5) |      |      |                 |      |      |     |      |
|-------|------|-----|------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|-----|------|
|       | x/a  | y/b | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> |      |      |     |      |
| A(1)  | 1125 | 860 | 2185 | 0.58            | 1183 | 1684 | 7257 | 0.70            | 1028 | 0    | 7121 | 0.89            | 3625 | 2494 | 7950 | 0.93            | 3492 | 1334 | 947 | 0.93 |
| A(2)  | 1123 | 866 | 2183 | 0.72            | 1186 | 1686 | 7272 | 0.68            | 1034 | 0    | 7103 | 0.89            | 3623 | 2494 | 7961 | 0.86            | 3490 | 1327 | 945 | 0.97 |
| A(3)  | 1107 | 906 | 2088 | 0.65            | 1198 | 1715 | 7368 | 0.64            | 1130 | 0    | 7071 | 1.12            | 3652 | 2497 | 8013 | 0.81            | 3507 | 1284 | 836 | 0.82 |
| A(4)  | 1107 | 904 | 2093 | 0.61            | 1197 | 1714 | 7363 | 0.61            | 1123 | 0    | 7067 | 1.03            | 3651 | 2498 | 8012 | 0.78            | 3505 | 1284 | 834 | 0.77 |
| A(5)  | 1108 | 907 | 2088 | 0.59            | 1200 | 1718 | 7373 | 0.62            | 1130 | 0    | 7075 | 1.08            | 3654 | 2496 | 8011 | 0.78            | 3506 | 1284 | 831 | 0.79 |
| A(6)  | 1119 | 871 | 2147 | 0.71            | 1199 | 1699 | 7291 | 0.82            | 1072 | 0    | 7098 | 0.92            | 3634 | 2485 | 7952 | 1.02            | 3482 | 1302 | 874 | 0.95 |
| A(7)  | 1120 | 863 | 2155 | 0.72            | 1198 | 1697 | 7277 | 0.76            | 1061 | 0    | 7112 | 0.92            | 3629 | 2485 | 7936 | 1.01            | 3480 | 1308 | 887 | 0.98 |
| A(8)  | 1113 | 905 | 2073 | 0.67            | 1201 | 1720 | 7365 | 0.70            | 1116 | 0    | 7081 | 1.00            | 3653 | 2490 | 8000 | 0.91            | 3498 | 1282 | 811 | 0.89 |
| A(9)  | 1111 | 909 | 2071 | 0.67            | 1202 | 1721 | 7376 | 0.70            | 1119 | 0    | 7082 | 1.12            | 3656 | 2490 | 8001 | 0.86            | 3496 | 1283 | 814 | 0.85 |
| A(10) | 1127 | 881 | 2102 | 0.75            | 1206 | 1707 | 7320 | 0.81            | 1097 | 0    | 7088 | 1.11            | 3640 | 2484 | 7965 | 1.11            | 3491 | 1278 | 798 | 0.94 |
| A(11) | 1126 | 884 | 2097 | 0.71            | 1207 | 1709 | 7324 | 0.76            | 1099 | 0    | 7083 | 1.07            | 3643 | 2484 | 7970 | 1.05            | 3491 | 1278 | 795 | 0.88 |
| A(12) | 1111 | 903 | 2079 | 0.72            | 1202 | 1720 | 7349 | 0.71            | 1112 | 0    | 7076 | 1.00            | 3649 | 2488 | 7986 | 0.94            | 3488 | 1283 | 798 | 0.93 |
| A(13) | 1101 | 913 | 2077 | 0.78            | 1202 | 1726 | 7332 | 0.84            | 1082 | 0    | 7081 | 0.99            | 3640 | 2475 | 7992 | 1.02            | 3449 | 1268 | 804 | 0.86 |

  

| No.   | O(6) |      |      | T(1)            |      |     | T(2) |                 |      | M(1) |      |                 |      |      |      |                 |   |     |      |      |
|-------|------|------|------|-----------------|------|-----|------|-----------------|------|------|------|-----------------|------|------|------|-----------------|---|-----|------|------|
|       | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a  | y/b | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> |   |     |      |      |
| A(1)  | 3460 | 1198 | 5886 | 0.81            | 3414 | 0   | 2956 | 0.97            | 2834 | 845  | 2973 | 0.47            | 2896 | 1708 | 8041 | 0.46            | 0 | 839 | 5000 | 0.82 |
| A(2)  | 3455 | 1194 | 5897 | 0.80            | 3404 | 0   | 2962 | 1.05            | 2826 | 846  | 2976 | 0.48            | 2895 | 1706 | 8045 | 0.48            | 0 | 846 | 5000 | 0.72 |
| A(3)  | 3417 | 1201 | 5805 | 0.81            | 3356 | 0   | 2992 | 0.87            | 2797 | 858  | 2918 | 0.46            | 2903 | 1707 | 8024 | 0.45            | 0 | 888 | 5000 | 0.63 |
| A(4)  | 3420 | 1202 | 5806 | 0.75            | 3358 | 0   | 2987 | 0.84            | 2797 | 858  | 2920 | 0.42            | 2902 | 1707 | 8025 | 0.41            | 0 | 888 | 5000 | 0.59 |
| A(5)  | 3416 | 1202 | 5804 | 0.74            | 3352 | 0   | 2987 | 0.85            | 2796 | 859  | 2916 | 0.44            | 2904 | 1708 | 8026 | 0.42            | 0 | 889 | 5000 | 0.61 |
| A(6)  | 3430 | 1186 | 5852 | 0.92            | 3385 | 0   | 2936 | 1.03            | 2805 | 849  | 2937 | 0.49            | 2891 | 1704 | 8013 | 0.51            | 0 | 892 | 5000 | 0.64 |
| A(7)  | 3435 | 1181 | 5864 | 0.92            | 3397 | 0   | 2922 | 0.96            | 2809 | 847  | 2945 | 0.47            | 2890 | 1705 | 8014 | 0.49            | 0 | 892 | 5000 | 0.59 |
| A(8)  | 3407 | 1203 | 5783 | 0.88            | 3340 | 0   | 2979 | 0.94            | 2801 | 857  | 2906 | 0.48            | 2903 | 1704 | 8012 | 0.47            | 0 | 906 | 5000 | 0.61 |
| A(9)  | 3404 | 1203 | 5781 | 0.86            | 3332 | 0   | 2985 | 0.94            | 2801 | 858  | 2908 | 0.47            | 2903 | 1704 | 8018 | 0.46            | 0 | 906 | 5000 | 0.63 |
| A(10) | 3421 | 1188 | 5782 | 0.96            | 3376 | 0   | 2937 | 0.98            | 2806 | 851  | 2902 | 0.49            | 2898 | 1700 | 7988 | 0.48            | 0 | 906 | 5000 | 0.59 |
| A(11) | 3419 | 1189 | 5780 | 0.90            | 3375 | 0   | 2940 | 1.00            | 2805 | 851  | 2901 | 0.46            | 2898 | 1700 | 7989 | 0.46            | 0 | 908 | 5000 | 0.58 |
| A(12) | 3405 | 1200 | 5781 | 0.91            | 3341 | 0   | 2970 | 1.00            | 2801 | 857  | 2902 | 0.46            | 2899 | 1705 | 8002 | 0.49            | 0 | 908 | 5000 | 0.60 |
| A(13) | 3376 | 1183 | 5814 | 0.92            | 3276 | 0   | 2972 | 1.03            | 2750 | 860  | 2909 | 0.55            | 2867 | 1708 | 7998 | 0.55            | 0 | 909 | 5000 | 0.73 |

Table 3. (cont..)

| No.   | M(2) |      |     |                 | M(3) |     |     |                 | M(4) |      |      |                 | M(42) |      |      |                 | A   |      |     |                 |
|-------|------|------|-----|-----------------|------|-----|-----|-----------------|------|------|------|-----------------|-------|------|------|-----------------|-----|------|-----|-----------------|
|       | x/a  | y/b  | z/c | B <sub>eq</sub> | x/a  | y/b | z/c | B <sub>eq</sub> | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a   | y/b  | z/c  | B <sub>eq</sub> | x/a | y/b  | z/c | B <sub>eq</sub> |
| A(1)  | 0    | 1792 | 0   | 0.61            | 0    | 0   | 0   | 0.50            | 0    | 2767 | 5000 | 1.03            | -     | -    | -    | -               | 0   | 5000 | 0   | 6.98            |
| A(2)  | 0    | 1795 | 0   | 0.61            | 0    | 0   | 0   | 0.58            | 0    | 2774 | 5000 | 0.87            | -     | -    | -    | -               | 0   | 5000 | 0   | 5.90            |
| A(3)  | 0    | 1811 | 0   | 0.53            | 0    | 0   | 0   | 0.67            | 0    | 2776 | 5000 | 1.11            | -     | -    | -    | -               | 0   | 5000 | 0   | 4.86            |
| A(4)  | 0    | 1810 | 0   | 0.48            | 0    | 0   | 0   | 0.66            | 0    | 2775 | 5000 | 1.17            | -     | -    | -    | -               | 0   | 5000 | 0   | 4.69            |
| A(5)  | 0    | 1811 | 0   | 0.50            | 0    | 0   | 0   | 0.64            | 0    | 2776 | 5000 | 1.13            | -     | -    | -    | -               | 0   | 5000 | 0   | 5.58            |
| A(6)  | 0    | 1808 | 0   | 0.59            | 0    | 0   | 0   | 0.76            | 0    | 2761 | 5000 | 1.33            | -     | -    | -    | -               | 0   | 5000 | 0   | 7.67            |
| A(7)  | 0    | 1804 | 0   | 0.59            | 0    | 0   | 0   | 0.56            | 0    | 2762 | 5000 | 1.20            | 0     | 2517 | 5000 | 0.63            | 0   | 5000 | 0   | 7.84            |
| A(8)  | 0    | 1826 | 0   | 0.55            | 0    | 0   | 0   | 0.62            | 0    | 2776 | 5000 | 1.24            | -     | -    | -    | -               | 0   | 5000 | 0   | 6.30            |
| A(9)  | 0    | 1827 | 0   | 0.56            | 0    | 0   | 0   | 0.63            | 0    | 2780 | 5000 | 1.20            | -     | -    | -    | -               | 0   | 5000 | 0   | 8.03            |
| A(10) | 0    | 1823 | 0   | 0.57            | 0    | 0   | 0   | 0.62            | 0    | 2761 | 5000 | 1.29            | 0     | 2577 | 5000 | 0.42            | 0   | 5000 | 0   | 4.44            |
| A(11) | 0    | 1824 | 0   | 0.55            | 0    | 0   | 0   | 0.63            | 0    | 2761 | 5000 | 1.35            | 0     | 2567 | 5000 | 0.68            | 0   | 5000 | 0   | 4.39            |
| A(12) | 0    | 1829 | 0   | 0.57            | 0    | 0   | 0   | 0.59            | 0    | 2770 | 5000 | 1.42            | -     | -    | -    | -               | 0   | 5000 | 0   | 9.90            |
| A(13) | 0    | 1839 | 0   | 0.59            | 0    | 0   | 0   | 0.68            | 0    | 2778 | 5000 | 1.36            | -     | -    | -    | -               | 0   | 5000 | 0   | 3.19            |

  

| No.   | A(m) |      |      |                 | A(2) |      |     |                 | H    |     |      |                 |     |     |     |                 |
|-------|------|------|------|-----------------|------|------|-----|-----------------|------|-----|------|-----------------|-----|-----|-----|-----------------|
|       | x/a  | y/b  | z/c  | B <sub>eq</sub> | x/a  | y/b  | z/c | B <sub>eq</sub> | x/a  | y/b | z/c  | B <sub>eq</sub> | x/a | y/b | z/c | B <sub>eq</sub> |
| A(1)  | 469  | 5000 | 1117 | 3.60            | 0    | 4833 | 0   | 3.96            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(2)  | 451  | 5000 | 1077 | 3.84            | 0    | 4795 | 0   | 3.07            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(3)  | 456  | 5000 | 973  | 3.52            | 0    | 4693 | 0   | 3.69            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(4)  | 447  | 5000 | 963  | 3.25            | 0    | 4661 | 0   | 2.06            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(5)  | 449  | 5000 | 989  | 3.54            | 0    | 4734 | 0   | 2.17            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(6)  | 429  | 5000 | 958  | 3.41            | 0    | 4794 | 0   | 4.73            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(7)  | 396  | 5000 | 948  | 3.63            | 0    | 4802 | 0   | 3.97            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(8)  | 480  | 5000 | 1055 | 2.96            | 0    | 4617 | 0   | 2.94            | 1965 | 0   | 7329 | 4.79            | -   | -   | -   | -               |
| A(9)  | 443  | 5000 | 1041 | 3.22            | 0    | 4498 | 0   | 1.33            | 2020 | 0   | 7780 | 1.33            | -   | -   | -   | -               |
| A(10) | 445  | 5000 | 965  | 3.53            | 0    | 4675 | 0   | 4.78            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(11) | 440  | 5000 | 981  | 3.34            | 0    | 4694 | 0   | 2.49            | -    | -   | -    | -               | -   | -   | -   | -               |
| A(12) | 476  | 5000 | 1147 | 2.48            | 0    | 4621 | 0   | 4.44            | 1983 | 0   | 7472 | 1.61            | -   | -   | -   | -               |
| A(13) | 386  | 5000 | 937  | 3.24            | 0    | 4700 | 0   | 3.00            | 1870 | 0   | 7480 | 0.82            | -   | -   | -   | -               |