Table 2. Fitted parameters for the grain interior and grain boundary conductivity of quartz andesite

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | *P* (GPa) | *T* (K) | Log *σ*0 (S/m) | Δ*H* (eV) | **2 | Δ*U* (eV) | Δ*V* (cm3/mol) |
| Grain boundary | 0.5 | 723-973 | 1.44 | 0.77 | 99.13 | 0.70±0.07 | 5.29±1.94 |
| 1.0 | 723-973 | 1.66 | 0.87 | 99.69 |
| 1.5 | 723-973 | 2.43 | 1.03 | 99.70 |
| 2.0 | 723-973 | 1.85 | 0.97 | 99.83 |
| Grain interior | 0.5 | 723-973 | 1.63 | 0.81 | 99.97 | 0.76±0.06 | 4.96±0.52 |
| 1.0 | 723-973 | 1.90 | 0.93 | 99.99 |
| 1.5 | 723-973 | 2.41 | 1.05 | 99.81 |
| 2.0 | 723-973 | 2.03 | 1.02 | 99.70 |