|  |  |  |  |
| --- | --- | --- | --- |
| **Studies** | **Equations** | **Average Tcalc - Texpt (with 1σ)** | **R2** |
| **Model A** |  | 0 ± 29 ˚C | 0.929 |
| **Model B** |  | 0 ± 31 ˚C | 0.925 |
| **Model C** |  | 0 ± 32 ˚C | 0.920 |
| **Model D** |  | -2 ± 49 ˚C | 0.788 |
| **Model E** |  | -2 ± 51 ˚C | 0.776 |
| **Model F** |  | -2 ± 54˚C | 0.716 |
| **Model G** |  | -2 ± 54˚C | 0.789 |
| **Model H** |  | -3 ± 63˚C | 0.701 |

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**Appendix E The average residual for eight model equations (same as Table 2) calibrated on 123 experiments in Appendix B, but 10000/T(K) is the dependent variable in all cases.**

Model A is based on the Li and Ripley (2010) model.

Model B is based on Eqn. 2c in Putirka et al. (2011).

Model C is based on Eqn. 2b in Putirka et al. (2011) and the SiO2 equation in Agee and Walker (1990).

Model D is based on the Wang and Gaetani (2008) model.

Model E is based on the Matzen et al. (2013) model.

Model F is based on the mole% model in Leeman and Lundstrom (1978) and the model in Arndt (1977).

Model G is based on Eqn. 2a in Putirka et al. (2011), the wt% model in Leeman and Lundstrom (1978); and the models in Keleman et al. (1998), Hart and Davis, (1978).

Model H is based on the MgO equation in Agee and Walker (1990).

\*The average residuals are for T, whereas the dependent variable was 10000/T for all models, which is why the average residual is not 0 in all cases.