**Feldspar Thermometers, Barometers and Hygrometers**

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| --- | --- | --- | --- | --- |
| Reference | Name in ThermoBar | Temperature-dependent? | Pressure-dependent? | H2O-dependent? |
| **Feldspar-Liquid thermometry. *Function “calculate\_fspar\_liq\_temp”*** | | | | |
| **Plagioclase-Liquid** | | | | |
| Putirka (2008) | T\_Put2008\_eq23 |  | **🗸** | **🗸** |
| T\_Put2008\_eq24a | **🗸** | **🗸** |
| **Alkali Feldspar-Liquid** | | | | |
| Putirka (2008) | T\_Put2008\_eq24b |  | **🗸** | **✗** |
| **Feldspar-Liquid barometry. *Function “calculate\_fspar\_liq\_press”*** | | | | |
| **Plagioclase-Liquid** | | | | |
| Putirka (2008) | P\_Put2008\_eq25 | **🗸** |  | **✗** |
| **Feldspar-Liquid hygrometry. *Function “calculate\_fspar\_liq\_hygr”*** | | | | |
| **Plagioclase-Liquid** | | | | |
| Putirka (2008) | H\_Put2008\_eq25b | **🗸** | **🗸** |  |
| Putirka (2005) | H\_Put2005\_eqH | **🗸** | **✗** |
| Waters and Lange (2015) | H\_Waters2015 | **🗸** | **🗸** |
| **Plagioclase-Alkali Feldspar thermometry. Function “calculate\_plag\_kspar\_temp”** | | | | |
| Putirka (2008) | T\_Put2008\_eq27a |  | **🗸** | **✗** |
| T\_Put2008\_eq27b | **🗸** | **✗** |
| T\_Put\_Global\_2Fspar | **🗸** | **✗** |
| **Other Functions** | | | | |
| **calculate\_fspar\_liq\_press\_temp:** Iteratively solves P and T for fspar-liq pairs using an equation for pressure, and an equation for temperature  **calculate\_plag\_kspar\_temp\_matching:** Calculates P and T for all possible plag-kspar pairs (with user-selected options for equilibrium criteria) | | | | |