**Garnet Thermometers and Barometers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reference | Name in Thermobar | T-dependent? | P-dependent? | H2O-dependent? |
| **Garnet-only thermometry. *Function “calculate\_gt\_only\_temp”*** | | | | |
| Ryan et al. (1996) | T\_Ryan1996 |  | **✗** | **✗** |
| Canil et al. (1999) | T\_Canil1999 | **✗** | **✗** |
| Sudholz et al. (2021) | T\_Sudholz2021 | **✗** | **✗** |
| **Garnet-only barometry *Function “calculate\_gt\_only\_press”*** | | | | |
| Ryan et al. (1996) | P\_Ryan1996 | **🗸** |  | **✗** |

**Other Garnet Functions**

|  |  |
| --- | --- |
| Garnet classification of Griffin et al. (2002) | “garnet\_CARP\_class\_Griffin2002” |
| Cr-pyrope classification of Grutter et al. (2004) | “garnet\_class\_Grutter2004” |
| Ca-Cr classification of Cr-pyrope of Griffin et al. (2002) | “garnet\_ca\_cr\_class\_Griffin2002” |
| Y-Zr Classification of Cr-pyrope of Griffin et al. (2002) | “y\_zr\_classification\_Griffin2002” |
| Ol Mg# from Cr-pyrope (Gaul et al. 2000) | “calculate\_ol\_mg” |
| Calculate Al2O3 of whole-rock from Cr-pyrope (after O’Reilly et al. 2006) | “calculate\_al2O3\_whole\_rock” |