

Table 5. Result of the P-T estimations for mafic granulite samples from the study area.

Peak stage(M1)	Temperature(°C) at 6 kbar
<u>Opx-Cpx geothermometers</u>	
Wood & Banno ²⁵	815
Wells ²⁶	861
Powell ²⁷	984
Average	887 ± 62
Opx-Cpx geobarometer	
P Mercier et.al. ¹⁸ (kbar)	5.83 – 6.47
Result of internally consistent dataset (Thermocalc v 3.21)	a (H ₂ O) = 1
(P–T) av	799± 40 °C/6.3 ± 0.9 kbar
Post Peak stage(M2)	
Hbl-Pl-Q thermometer	
P Schmidt ²¹ (kbar)	2.14 - 2.43
T (HB ₁) ²² at pressure by Schmidt ²⁰ (°C)	590 - 693

Independent set of reactions used to estimate average pressure-temperature (PT_{av})

(For a (H₂O) = 1):

1. 2fact + 5mgts + 5di + 5q = 2tr + 5 fs + 5an
2. 2fact + 2mgts = en + 4fs + 2hed + 2an + 2H₂O
3. 3mgts + 3hed + ann + 3q = 3fs + phl + 3an
4. parg + 4mgts + 5hed + 9q = fact + 4en + 5an + ab
5. 2parg + 6hed + 8 east + 16 q = 3 fs + 8phl + 10 an + 2ab + 2H₂O

Symbols. HB₁: Holland and Blundy²¹ thermometry calibration reaction ed + q = tr + ab

hed: hedenbergite, di: diopside, en: enstatite, tr: tremolite, fs: ferrosilite, ts: tschermakite, fact: ferroactinolite, an: anorthite, ed: edenite, parg: pargasite, q: quartz, H₂O: water fluid and ab: albite.