

Microsoft Windows XP [Verze 6.0.6002]
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C:\Users\Terezka\Documents\Perple_X clear>werami

Perple_X version 6.7.0, source updated July 2, 2014.

Enter the project name (the name assigned in BUILD) [default = my_project]:
Al2SiO5

Reading computational options from: perplex_option.dat
Writing computational option summary to file: not requested

Perple_X computational option settings for WERAMI:

Keyword: Value: Permitted values [default]:

Input/Output options:

spreadsheet	T	[F] T
logarithmic_p	F	[F] T
bad_number	NaN	[0.0]
composition	mol	wt [mol]
proportions	mol	wt [vol] mol
interpolation	on	off [on]
melt_is_fluid	F	[F] T
seismic_output	som	none [some] all

Information file output options:

option_list_files	F	[F] T; echo computational options
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Thermodynamic options:

approx_alpha	T	[T] F
Anderson-Gruneisen	F	[T] F

Seismic velocity options:

bounds	VRH	HS [VRH]
vrh/hs_weighting	0.5	0->1 [0.5]
explicit_bulk_modulus	T	[F] T
poisson_ratio	on	off [on] all; Poisson ratio = 0.35

To change these options see: www.perplex.ethz.ch/perplex_options.html

Select operational mode:

- 1 - properties at specified conditions
- 2 - properties on a 2d grid
- 3 - properties along a 1d path

4 - as in 3, but input from file

0 - EXIT

2

Select a property [enter 0 to finish]:

- 1 - Specific Enthalpy (J/m³)
- 2 - Density (kg/m³)
- 3 - Specific heat capacity (J/K/m³)
- 4 - Expansivity (1/K, for volume)
- 5 - Compressibility (1/bar, for volume)
- 6 - Composition (Mol or Wt%) of the system
- 7 - Mode (Vol, Mol, or Wt proportion) of a phase
- 8 - Composition (Mol or Wt%) of a solution phase
- 9 - Grueneisen thermal ratio
- 10 - Adiabatic bulk modulus (bar)
- 11 - Adiabatic shear modulus (bar)
- 12 - Sound velocity (km/s)
- 13 - P-wave velocity (V_p, km/s)
- 14 - S-wave velocity (V_s, km/s)
- 15 - V_p/V_s
- 16 - Specific entropy (J/K/m³)
- 17 - Entropy (J/K/kg)
- 18 - Enthalpy (J/kg)
- 19 - Heat Capacity (J/K/kg)
- 20 - Specific mass of a phase (kg/m³-system)
- 21 - Poisson ratio
- 22 - Molar Volume (J/bar)
- 23 - Dependent potentials (J/mol, bar, K)
- 24 - Assemblage Index
- 25 - Modes of all phases
- 26 - Sound velocity T derivative (km/s/K)
- 27 - P-wave velocity T derivative (km/s/K)
- 28 - S-wave velocity T derivative (km/s/K)
- 29 - Adiabatic bulk modulus T derivative (bar/K)
- 30 - Shear modulus T derivative (bar/K)
- 31 - Sound velocity P derivative (km/s/bar)
- 32 - P-wave velocity P derivative (km/s/bar)
- 33 - S-wave velocity P derivative (km/s/bar)
- 34 - Adiabatic bulk modulus P derivative (unitless)
- 35 - Shear modulus P derivative (unitless)
- 36 - All phase &/or system properties
- 37 - Absolute amount (Vol, Mol, or Wt) of a phase
- 38 - Multiple property output
- 39 - Heat capacity ratio (C_p/C_v)

2

Calculate individual phase properties (y/n)?

n

Select a property [enter 0 to finish]:

0

Change default variable range (y/n)?

n

Enter number of nodes in the T(K) and P(bar) directions:

200 200

****warning ver178**** at T(K)= 473.0 P(bar)= 500.0 the shear modulus of: ky is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 509.2 P(bar)= 500.0 the shear modulus of: and is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 1104. P(bar)= 500.0 the shear modulus of: sill is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 473.0 P(bar)= 545.2 the shear modulus of: ky is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 509.2 P(bar)= 545.2 the shear modulus of: and is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 1100. P(bar)= 545.2 the shear modulus of: sill is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 473.0 P(bar)= 590.5 the shear modulus of: ky is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 517.2 P(bar)= 590.5 the shear modulus of: and is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 1096. P(bar)= 590.5 the shear modulus of: sill is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 473.0 P(bar)= 635.7 the shear modulus of: ky is missing or invalid and has been estimated from the default poisson ratio

****warning ver178**** at T(K)= 517.2 P(bar)= 635.7 the shear modulus of: and is missing or invalid and has been estimated from the default poisson ratio

warning ver049 warning 178 will not be repeated for future instances of this problem.
currently in routine: GETPHP

Data ranges excluding values equal to bad_number (NaN) specified in
perplex_option.dat:

rho,kg/m3
min 3084.656
max 3680.808

Output has been written to the 2d tab format file: Al2SiO5_1.tab

2d tab format files can be processed with:

PSTABLE - a Perple_X plotting program
PERPLE_X_PLOT - a MATLAB plotting script
PYWERAMI - petrol.natur.cuni.cz/~ondro/pywerami:home
spread-sheet programs, e.g., EXCEL

for details on tab format refer to:

perplex.ethz.ch/faq/perple_x_tab_file_format.txt

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- 0

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