

sialca is a database for the system CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>. The data is from: **Berman R.G., Brown T.H. (1984):** A thermodynamic model for multicomponent melts, with application to the system CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>. Geochim. Cosmochim. Acta 48:661-678

**Note:** the components are not the elements, but the oxides SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and CaO. The data is for 1 Bar, all volumes are zero.

## Example 1: Binary diagram SiO<sub>2</sub> - CaO, at 1 Bar, from 1000 to 2000 °C.

All input is stored in therbin.last, so accept all suggestions with <CR>.

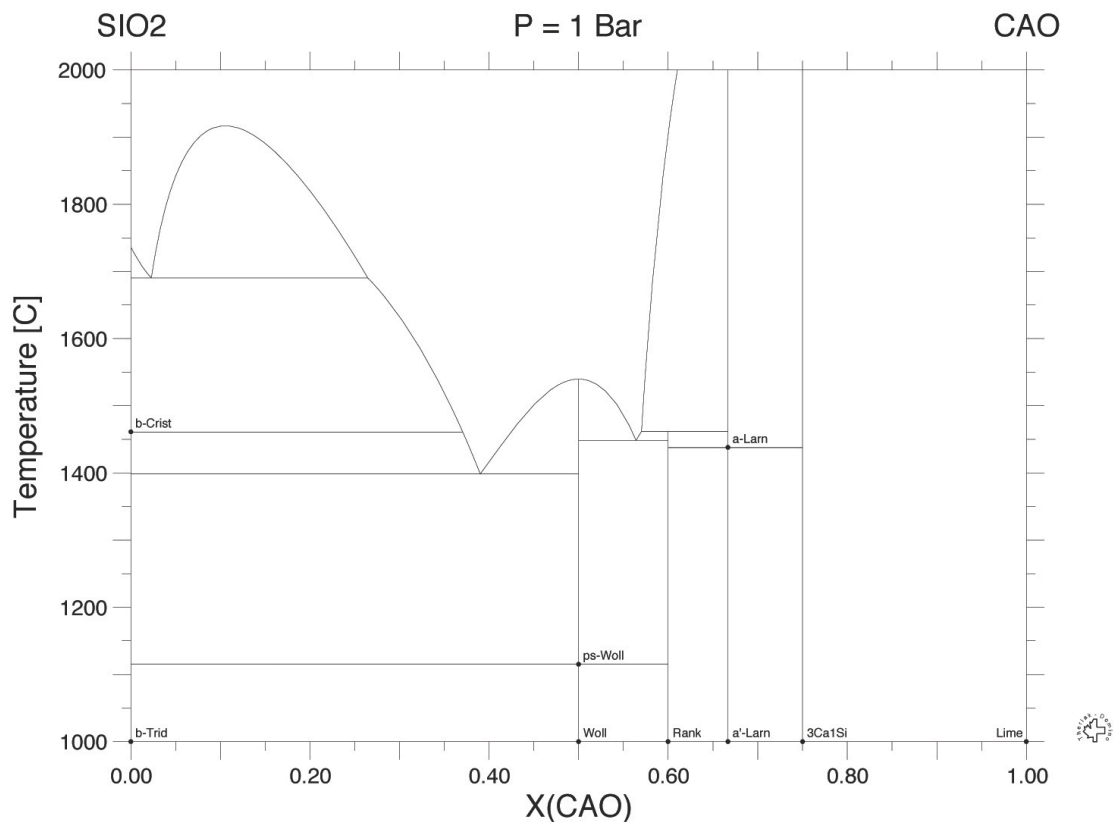
### start therbin

```
database filename      sialca
endmember 1 (formula 1)  SI02
endmember 2 (formula 2)  CAO
Y-variable            TC   1000   2000
pressure              1
number of seeds        0 (default)
scan density and tolerance  10  10  0.02 (default)
```

### start explot

```
graphics file name      plot
```

the produced plot.ps is:



## Example 2: Ternary diagram $\text{Al}_2\text{O}_3$ - $\text{CaO}$ - $\text{SiO}_2$ , 1Bar and 1470 °C.

All input is stored in therter.last, so accept all suggestions with <CR>.

### start therter

```
database filename      sialca
endmember 1 (formula 1)  AL2O3
endmember 2 (formula 2)  CAO
endmember 3 (formula 3)  SIO2
Temperature and Pressure 1470.00      1.00
number of seeds         0 (default)
scan density and tolerance 11 0.02 (default)
```

### start explot

```
graphics file name      plot
```

the produced plot.ps is:

