Supplementary material 7. Rock name of extract of fractional crystallization thermodynamic modeling from strongly silica-undersaturated suites of Passa Quatro alkali complex.

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| --- | --- | --- | --- | --- | --- |
| LLD | TI (ºC)1 | TF (ºC)1 | P (Kbar) | %FC | Rock name of total solid extract |
| Basanitic | 1267 | 1212 | 10 | 12 | wehrlite (plus apatite and spinel) |
| Nephelinitic | 1280 | 1136 | 10 | 30 | olivine-bearing clinopyroxenite (plus spinel and apatite) |
| Alkaline basaltic | 1308 | 1201 | 10 | 43 | clinopyroxenite (plus apatite) |
| Basanitic (initial) | 1184 | 954 | 5 | 57 | clinopyroxenite (plus spinel and apatite) |
| Basanitic (final) | 952 | 812 | 5 | 23 | mesocratic syenite |
| Phonotephrite (initial) | 1124 | 876 | 5 | 46 | hornblende- and biotite-bearing clinopyroxenite (plus apatite) |
| Phonotephrite (final) | 874 | 854 | 5 | 18 | leucocratic leucite monzosyenite |
| Alkaline basaltic (initial) | 1200 | 1100 | 5 | 36 | clinopyroxenite (plus spinel and apatite) |
| Alkaline basaltic (final) | 1098 | 854 | 5 | 48 | leucocratic monzodiorite |

1Abreviations: TI and TF are initial and final fractional crystallization temperatures, respectively; P is pressure; %FC is the amount of fractional crystallization. See supplementary material 4 for details on the mineralogy of the solid extract.