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**Multiple-reaction geobarometry for olivine-bearing igneous rocks**  
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**Supplementary Material 7**

Correlation matrixes of the reactions

**Table S7** Correlation matrixes for the reactions involved in avP calculations. Correlations in  $\ln K_r$  and  $P_r$  are functions of the end-member activities in a given avP calculation, so a range of variations for the calculations on the experimental database is shown. Reaction numbers as in Fig. 4.

<b>Enthalpy of reactions</b>						
	r1	r2	r3	r4	r5	r6
r1	1	0.878	0.146	0.729	0.093	0.016
r2		1	-0.027	0.688	0.010	0.021
r3			1	0.088	0.426	0.035
r4				1	0.147	0.006
r5					1	0.051
r6						1
<b><math>\ln K_r</math></b>						
	r1	r2	r3	r4	r5	r6
r1	1	0.199 - 0.868	0.006 - 0.259	0.348 - 0.969	0.005 - 0.153	0.000
r2		1	0.000	0.124 - 0.742	0.005 - 0.370	0.000 - 0.490
r3			1	0.003 - 0.114	0.136 - 0.985	0.000 - 0.063
r4				1	0.021 - 0.666	0.000
r5					1	0.000 - 0.578
r6						1
<b>Calculated pressure (<math>P_r</math>)</b>						
	r1	r2	r3	r4	r5	r6
r1	1	0.201 - 0.868	0.006 - 0.258	0.349 - 0.969	0.005 - 0.153	0.000-0.001
r2		1	0.000	0.127 - 0.742	0.005 - 0.370	0.000 - 0.474
r3			1	0.003 - 0.114	0.136 - 0.985	0.000 - 0.062
r4				1	0.021 - 0.665	0.000
r5					1	0.000 - 0.566
r6						1