

Lecture_07
 Oxygen isotopes of Igneous
 Systems
 Chapter 5, p. 112-115
 Chapter 11

Silicate paleothermometers

Table 26.6. Values of the Coefficients (A) for Pairs of Minerals Arranged to Make A Positive in the equation: $10^3 \ln \alpha_b^a = A \times 10^6 / T^2$

Mineral "a"	Minerals "b"					
	Cal	Ab	An	Di	Fo	Mt
Qtz	0.38	0.94	1.99	2.75	3.67	6.29
Cal		0.56	1.61	2.37	3.29	5.91
Ab			1.05	1.81	2.73	5.35
An				0.76	1.68	4.30
Di					0.92	3.54
Fo						2.62

Source: Chiba et al., 1989.
 Note: Qtz = quartz, Cal = calcite, Ab = albite,* An = anorthite, Di = diopside, Fo = forsterite.

Silicate paleothermometers
 Fig. 26.9








