

Table 2 - Detailed synthesis histories of feldspars from this investigation.

Eifel Sanidine Series (based on Eifel sanidine #7002)

71102	I, 7002, 0, 865, 40 (71102).
72003	I, 7002, 0, 831, 26 (7105); H, 7105, 935, 90 (72003).
8201	I, 7002, 0, 831, 26 (7105); H, 7105 + 7002, 930, 250 (8201).
8202	I, 7002, 0, 831, 26 (7105); H, 7105 + 7002, 930, 250 (8202).
72001B	I, 7002, 0, 831, 26 (7105); H, 7105 + 7002, 935, 90 (72001B).
8203	I, 7002, 0, 831, 26 (7105); H, 7105 + 7002, 930, 250 (8203).
7052	I, 7002, 1, 824, 35 (7052).

Orthoclase Series (based on Madagascar orthoclase #B18938)

8431	I, 7738 + B18938 + 7814 + 7903 + 7908 + 7906 + 7818; O, 846, 24.1 (8431).
7735	I, B18938, .053, 809, 10 (7734); H, 7734, 936, 120.1 (7735).
7818	I, B18938, .15, 800, 12 (7816); I, 7816, .15, 800, 11.9 (7817); H, 7817, 930, 120.4 (7818)
7815	I, B18938, .053, 816, 10.3 (7737); H, 7737, 930, 47 (7740); H, 7740 + B18938, 926, 120.2 (7815).
7906	H, 7735 + 7740 + 7801 + 7815 + 7818 + 7904, 936, 120 (7906).
7905	I, B18938, .19, 806, 15.1 (7902); I, 7902, .20, 805, 9.6 (7904); H, 7904 + B18938, 936, 123.4 (7905).
7801	I, B18938, .053, 816, 10.3 (7737); H, 7737, 930, 47 (7740); H, 7740 + B18938, 930, 120 (7801).
7908	I, B18938, .053, 806, 10.2 (7901); H, 7901 + B18938, 933, 120 (7903); I, B18938, .053, 805, 9.6 (7907); H, 7903 + 7907 + 7814 + B18938, 935, 120 (7908).
7903	I, B18938, .053, 806, 10.2 (7901); H, 7901 + B18938, 933, 120 (7903).
7814	I, B18938, .40, 809, 5.1 (7811); I, 7811 + B18938, .40, 803, 9.1 (7812); I, 7812, .40, 803, 11.9 (7813); H, 7813, 930, 120 (7814).
7738	I, B18938, 1, 807, 24.3 (7736); H, 7736, 832, 39.4 (7738).

Adularia Series (based on St. Gotthard adularia #7007)

7190	I, 7007, 0, 865, 40 (7190).
7197, 8302	I, 7007, 0, 815, 30 (7184); H, 7184, 925, 121 (7197, 8302).*
7927	I, 7007, .053, 820, 10.7 (7920); I, 7920, .053, 820, 11.6 (7921); H, 7921, 910, 66 (7923); I, 7923 + 7007, .042, 785, 13 (7924); H, 7924, 917, 123.2 (7927).
73011E	I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 932, 120.5 (73011).
7917	I, 7007, .053, 844, 13.1 (7910); H, 7910, 928, 120 (7911); H, 7911, 928, 48.7 (7917).
73013E	I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 932, 120.5 (73013).
7914	I, 7007, .053, 844, 13 (7912); H, 7912, 910, 50.8 (7913); H, 7913, 910, 120 (7914).
7196C	I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 815, 121 (7196C).
7918	I, 7007, .053, 844, 13 (7912); H, 7912, 910, 50.8 (7913); H, 7913 + 7007, 910, 120.3 (7918).
7198	H, 7007, 925, 121 (7198).

7905 I, B18938, .19, 806, 15.1 (7902); I, 7902, .20, 805, 9.6 (7904);
H, 7904 + B18938, 936, 123.4 (7905).

7801 I, B18938, .053, 816, 10.3 (7737); H, 7737, 930, 47 (7740);
H, 7740 + B18938, 930, 120 (7801).

7908 I, B18938, .053, 806, 10.2 (7901); H, 7901 + B18938, 933,
120 (7903); I, B18938, .053, 805, 9.6 (7907); H, 7903 + 7907 +
7814 + B18938, 935, 120 (7908).

7903 I, B18938, .053, 806, 10.2 (7901); H, 7901 + B18938, 933,
120 (7903).

7814 I, B18938, .40, 809, 5.1 (7811); I, 7811 + B18938, .40, 803,
9.1 (7812); I, 7812, .40, 803, 11.9 (7813); H, 7813, 930,
120 (7814).

7738 I, B18938, 1, 807, 24.3 (7736); H, 7736, 832, 39.4 (7738).

Adularia Series (based on St. Gotthard adularia #7007)

7190 I, 7007, 0, 865, 40 (7190).

7197, 8302 I, 7007, 0, 815, 30 (7184); H, 7184, 925, 121 (7197, 8302).*

7927 I, 7007, .053, 820, 10.7 (7920); I, 7920, .053, 820, 11.6
(7921); H, 7921, 910, 66 (7923); I, 7923 + 7007, .042, 785,
13 (7924); H, 7924, 917, 123.2 (7927).

73011E I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 932, 120.5 (73011).

7917 I, 7007, .053, 844, 13.1 (7910); H, 7910, 928, 120 (7911);
H, 7911, 928, 48.7 (7917).

73013E I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 932, 120.5 (73013).

7914 I, 7007, .053, 844, 13 (7912); H, 7912, 910, 50.8 (7913);
H, 7913, 910, 120 (7914).

7196C I, 7007, 0, 815, 30 (7184); H, 7184 + 7007, 815, 121 (7196C).

7918 I, 7007, .053, 844, 13 (7912); H, 7912, 910, 50.8 (7913);
H, 7913 + 7007, 910, 120.3 (7918).

7198 H, 7007, 925, 121 (7198).

7049 I, 7007, 1, 808, 36.5 (7049).

7045 I, 7007, 1, 814, 42 (7045).

Microcline Series (based on Amelia low albite #7010)

8205 H, 7010 + 71104, 930, 242.0 (8205).

8207 H, 7010 + 71104, 937, 316.3 (8207).

8429 H, 7010 + 71104, 846 to 942, 252.0 (8429).

8047 H, 7010 + 71104, 941, 248.3 (8047).

8204 H, 7010 + 71104, 931, 246.2 (8204).

8206 H, 7010 + 71104, 929, 241.4 (8206).

71104 I, 7010, 1, 840, 16.5 (71104).

An "I" indicates a molten chloride ion-exchange experiment, and an "H" indicates a dry homogenization run. In the case of an ion-exchange run the number after the "I" is that of the feldspar(s) used as the starting material, followed by the composition of the salt (given by the mole fraction of KCl in the salt), the temperature (°C) and the duration (in hours) of the run. The bracketed number at the end is that of the resulting feldspar. In homogenization experiments the "H" is followed by the identification number(s) of the starting feldspar(s), the temperature (°C) and the duration of the run (hours), and the identity of the resulting feldspar.

*#7197 and 8302 were synthesized from the same parent material under identical conditions, but in different furnace runs.