

Electron Microprobe Data

Ruff ID: **R060077**

Mineral: **Microcline**

Locality: pegmatite near Minh Tien, 15 km south of Luc Yen, Vietnam

Weight Percents

Analysis	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	Average	StDev
SiO ₂	64.95	64.88	64.93	64.60	64.87	64.94	64.98	64.61	65.07	65.07	64.89	0.16
Al ₂ O ₃	18.26	18.44	18.33	18.36	18.32	18.38	18.31	18.12	18.31	18.22	18.31	0.09
FeO	0.01	0.00	0.03	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.01	0.01
Na ₂ O	1.27	1.29	1.28	1.30	1.37	1.31	1.28	1.33	1.38	1.30	1.31	0.04
K ₂ O	14.50	14.43	14.50	14.35	14.43	14.30	14.27	14.36	14.38	14.36	14.39	0.08
Totals	98.98	99.05	99.08	98.60	98.99	98.93	98.86	98.43	99.17	98.95	98.90	0.23

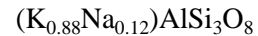
Cation numbers normalized to 8 Oxygens

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	ACN	StDev	NCN	CNISF*
Si	3.01	3.00	3.01	3.00	3.01	3.01	3.01	3.01	3.01	3.02	3.01	0.00	3.02	3.00
Al	1.00	1.01	1.00	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
K	0.86	0.85	0.86	0.85	0.85	0.85	0.84	0.85	0.85	0.85	0.85	0.00	0.85	0.88
Na	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.00	0.12	0.12
Totals	4.98	4.98	4.99	4.98	4.98	4.97	4.97	4.98	4.98	4.98	4.98	0.00	5.00	

Ideal Chemistry:



Calculated Chemistry:



Trace amounts of Fe

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 20 nA

Beam Size: Spot

Date of Analysis: 03/11/06

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = ACN*5/4.98

StDev: Standard Deviation

CNISF*: Cation Numbers In Structural Formulae,
normalized for each structural site and charge balanced

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
TAP	Na	Ka	20	10	600	-600	albite-Cr
TAP	F	Ka	20	10	800	-800	MgF2
TAP	Al	Ka	20	10	600	-600	kyanite
TAP	Si	Ka	20	10	600	-600	albite-Cr
TAP	Mg	Ka	20	10	500	-500	diopside
PET	K	Ka	20	10	500	-500	kspar-OR1
PET	Ti	Ka	20	10	600	-600	rutile1
PET	Ca	Ka	20	10	600	-600	diopside
LIF	Mn	Ka	20	10	500	-500	rhod-791
LIF	Fe	Ka	20	10	500	-250	fayalite