

Electron Microprobe Data

Rruff ID: **R050420**

Mineral: **Priceite**

Locality: 20-Mule-Team Canyon, Death Valley, California, USA

Weight Percents

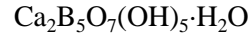
Analysis	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#14	#15	#16	#17	Average	StDev
CaO	32.17	31.98	31.95	32.25	32.41	32.40	32.36	32.32	32.22	32.32	31.91	32.43	32.55	31.95	32.14	32.04	32.21	0.20
B ₂ O ₃ *	49.93	49.63	49.58	50.05	50.30	50.28	50.21	50.16	50.00	50.16	49.51	50.33	50.51	49.58	49.88	49.71	49.99	0.31
Totals	82.10	81.61	81.53	82.30	82.71	82.68	82.57	82.49	82.21	82.49	81.42	82.76	83.06	81.53	82.02	81.75	82.20	0.51
H ₂ O*	17.90	18.39	18.47	17.70	17.29	17.32	17.43	17.51	17.79	17.51	18.58	17.24	16.94	18.47	17.98	18.25	17.80	0.51

* = calculated values: B₂O₃ calculated as CaO/0.64444 and H₂O calculated by difference from 100

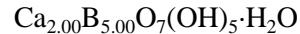
Cation numbers normalized to 7 Oxygens and 5 (OH)

																	ACN	StDev	NCN	CNISF**
Ca	2.02	2.00	2.00	2.02	2.04	2.03	2.03	2.03	2.02	2.03	2.00	2.04	2.05	2.00	2.01	2.01	2.02	0.02	2.01	2.00
B	5.03	5.03	5.03	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.04	5.02	5.01	5.03	5.03	5.03	5.03	0.01	4.99	5.00
Totals	7.04	7.04	7.03	7.05	7.05	7.05	7.05	7.05	7.05	7.05	7.03	7.05	7.06	7.03	7.04	7.04	7.05	0.01	7.00	

Ideal Chemistry:



Calculated Chemistry:



Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 20 nA

Beam Size: 10 microns

Date of Analysis: 06/03/2006

Microprobe Calibration Data

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
TAP	P	Ka	20	10	600	-600	apatite-s
TAP	As	Ka	20	10	600	-600	as
LIF	Cu	Ka	20	10	500	-500	cu

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = ACN*8/8.04

StDev: Standard Deviation

CNISF**: Cation numbers in structural formulae, charge balanced