EXP#23G09677 > 6A22-6 > STEELY (22-19)
NORTHEAST WASHINGTON > HUNTERS
23-OSU-01 (1B14-23) > Incremental Heating > PLAGIOCLASE > Dan Miggins

Information on Analysis and Constants Used in Calculations

Project = **STEELY (22-19)**
Sample = **6A22-6**
Material = **PLAGIOCLASE**
Location = **Hunters**
Region = **Northeast Washington**
Analyst = **Dan Miggins**
Irradiation = **23-OSU-01 (1B14-23)**
Position = **X: 999 | Y: 999 | Z/H: 17.85503 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.42043 ± 0.00857**
FCT-NM J-value = **0.00164807 ± 0.00000150**
Air Shot 40Ar/36Ar = **308.0710 ± 0.4529**
Air Shot MDF = **0.99227184 ± 0.00043684 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Bulk Laser Heating**
Heating = **50 sec**
Isolation = **2.00 min**
Instrument = **ARGUS-VI-G**
Preferred Age = **Mini Plateau**
Age Classification = **Crystallization Age**
IGSN = Undefined
Rock Class = Undefined
Lithology = Undefined
Lat-Lon = Undefined - Undefined
Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K(total) = **5.463 ± 0.107 E-10 1/a**
Decay 40K(EC,β^+) = **0.580 ± 0.014 E-10 1/a**
Decay 40K(β^-) = **4.884 ± 0.099 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Production 39/37(ca) = **0.0006425 ± 0.0000059**
Production 38/37(ca) = **0.0001800 ± 0.0000173**
Production 36/37(ca) = **0.0002703 ± 0.0000005**
Production 40/39(k) = **0.000607 ± 0.000059**
Production 38/39(k) = **0.012077 ± 0.000011**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**
Trapped 40/36(a) = **298.56 ± 0.31**
Trapped 38/36(a) = **0.1885 ± 0.0003**
Standard MDF 40/36(a) = **298.56 ± 0.31**
Standard MDF Reference = **Lee et al 2006**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		17.52496 ± 0.03685	**52.12 ± 0.14**	1.33	29.77	0.097 ± 0.002
		± 0.21%	**± 0.27%**	16%	18	
			Full External Error ± 2.69	1.69	2σ Confidence Limit	
			Analytical Error ± 0.11	1.1542	Error Magnification	
Total Fusion Age		17.74328 ± 0.01400	**52.76 ± 0.10**		30	0.099 ± 0.000
		± 0.08%	**± 0.20%**			
			Full External Error ± 2.72			
			Analytical Error ± 0.04			
Normal Isochron	**279.40 ± 77.39**	17.56630 ± 0.21029	**52.24 ± 0.62**	1.51	29.77	
No Convergence	**± 27.70%**	± 1.20%	**± 1.19%**	9%	18	
			Full External Error ± 2.77	1.71	2σ Confidence Limit	
			Analytical Error ± 0.62	1.2271	Error Magnification	
Inverse Isochron	**305.78 ± 82.28**	17.50613 ± 0.21766	**52.06 ± 0.65**	1.41	29.77	
Clustered Points	**± 26.91%**	± 1.24%	**± 1.24%**	13%	18	
			Full External Error ± 2.76	1.71	2σ Confidence Limit	
			Analytical Error ± 0.64	1.1875	Error Magnification	
				4%	Spreading Factor