EXP#16D30473 > 114941 > Groundmass > MECO (16-12)
CANARY ISLANDS > LANZAROTE ISLANDS
16-OSU-07 (7A27-16) > Incremental Heating > Anthony Koppers

Information on Analysis and Constants Used in Calculations

Project = **MECO (16-12)**
Sample = **114941**
Material = **Groundmass**
Location = **Lanzarote Islands**
Region = **Canary Islands**
Analyst = **Anthony Koppers**
Irradiation = **16-OSU-07 (7A27-16)**
Position = **X: 0 | Y: 0 | Z/H: 34.2 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **10.23477 ± 0.00706**
FCT-NM J-value = **0.00153569 ± 0.00000106**
Air Shot 40Ar/36Ar = **303.3600 ± 0.4490**
Air Shot MDF = **0.99351418 ± 0.00068132 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = Undefined
Heating = **77 sec**
Isolation = **3.00 min**
Instrument = **ARGUS-VI-D**
Preferred Age = Undefined
Age Classification = Undefined
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 = **5.530 ± 0.048 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**
Decay 40K(EC,β^+) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β^-) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006756 ± 0.0000089**
Production 38/37(ca) = **0.0000718 ± 0.0000092**
Production 36/37(ca) = **0.0002663 ± 0.0000004**
Production 40/39(k) = **0.003823 ± 0.000102**
Production 38/39(k) = **0.012031 ± 0.000019**
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**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		3.46509 ± 0.01865 (± 0.54%)	**9.60 ± 0.05 (± 0.55%)**	1.50 12%	45.92 12	0.0690 ± 0.0053
			Full External Error ± 0.22	1.85	2σ Confidence Limit	
			Analytical Error ± 0.05	1.2246	Error Magnification	
Total Fusion Age		3.55208 ± 0.01165 (± 0.33%)	**9.84 ± 0.03 (± 0.35%)**		29	0.0424 ± 0.0001
			Full External Error ± 0.22			
			Analytical Error ± 0.03			
Normal Isochron	**435.17 ± 169.65 (± 38.98%)**	3.33351 ± 0.15732 (± 4.72%)	**9.23 ± 0.43 (± 4.71%)**	1.14 33%	45.92 12	
No Convergence			Full External Error ± 0.48	1.89	2σ Confidence Limit	
			Analytical Error ± 0.43	1.0676	Error Magnification	
Inverse Isochron	**467.22 ± 173.03 (± 37.03%)**	3.30780 ± 0.15401 (± 4.66%)	**9.16 ± 0.43 (± 4.65%)**	1.12 34%	45.92 12	
			Full External Error ± 0.47	1.89	2σ Confidence Limit	
			Analytical Error ± 0.43	1.0570	Error Magnification	
				5%	Spreading Factor