

Blank measurements carried out after 3 or 4 step measurements using exactly same protocol.
 Measured signals were blank corrected, using blank time functions, before regression.

Constants

used:

Atmospheric argon ratios:

$(^{40}\text{Ar}/^{36}\text{Ar})_{\text{A}}$ 298.56 ± 0.31 Lee et al., 2006

$(^{38}\text{Ar}/^{36}\text{Ar})_{\text{A}}$ 0.1885 ± 0.0003 Lee et al., 2006

Interfering isotope production ratios:

$(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ $(8.6 \pm 0.1)\text{E-4}$ Own calibrations of position B2W in Safari1 reactor

$(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ $(2.8 \pm 1.1)\text{E-4}$ Own calibrations of position B2W in Safari1 reactor

$(^{40}\text{Ar}/^{39}\text{Ar})_{\text{K}}$ 0.0426 ± 0.0041 Own calibrations of position B2W in Safari1 reactor

Decay

constants:

^{40}K
 total $(5.541 \pm 0.014)\text{E-10 a}^{-1}$ Kossert and Günther 2004

^{39}Ar $0.00258 \pm 0.00003 \text{ a}^{-1}$ Stoenner et al. (1965)

^{37}Ar $0.01975 \pm 0.0005 \text{ day}^{-1}$ Renne and Norman (2001)