^{80}Ge

In the 1972 paper "Identification of new germanium isotopes in fission: Decay properties and nuclear charge distribution in the A = 78 to 84 mass region" del Marmol and Fettweis identified ^{80}Ge (1972De43). A uranyl nitrate solution of ^{235}U was irradiated with neutrons from the Mol BR1 graphite reactor. Gamma-ray spectra were recorded with a Ge(Li) detector following chemical separation. "By combining the three methods (the 666.2 keV growth and decay measurement, the 'milking' and decay of the 265.6 keV γ-ray) an average half-life of 24.5$\pm$1.0 s was chosen for ^{80}Ge, which confirms the assignment of the Osiris group." The previous assignment of ^{80}Ge by the OSIRIS group mentioned in the quote was only published in a conference proceeding (1970GrYM).

Adapted from reference (2012Gr19)

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