

²⁴⁷Bk

In 1965, Milsted et al. reported the discovery of ²⁴⁷Bk in the paper “The alpha half-life of berkelium-247; A new long-lived isomer of berkelium-248” (1965Mi08). A curium target was bombarded with α particles from the Argonne 150 cm cyclotron. The α -decay half-life of ²⁴⁷Bk was measured by a mass-spectrometric isotopic dilution method. “The 247/249 mass ratio, taken in conjunction with the activity ratio, gives an alpha half-life of 1380 ± 250 y for Bk²⁴⁷, if the β^- half-life of Bk²⁴⁰ is taken 310 d.” The observation of ²⁴⁷Bk had previously been reported in a Ph. D. thesis (1956Ch77).

Adapted from reference (2013Fr02)

- 1956Ch77 A. Chetham-Strode Jr., Thesis, Univ. California (1956).
1965Mi08 J. Milsted, A. M. Friedman, and C. M. Stevens, Nucl. Phys. **71**, 299 (1965).
2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152”