

¹⁷⁵Hf

The first observation of ¹⁷⁵Hf was reported by Wilkinson and Hicks in 1949 in “Hf¹⁷⁵, a new radioactive isotope of hafnium” (1949Wi11). Lutetium oxide was bombarded with 19 MeV deuterons and 10 MeV protons from the Berkeley 60-in. cyclotron. Decay curves and absorption spectra were measured with mica window counters following chemical separations. “The chemically separated hafnium has been found to contain a single radioactivity, emitting electrons and γ -radiations, which decays with a half-life of 70 ± 2 days... The new isotope is allocated to mass 175.”

Adapted from reference (2012Gr19)

- 1949Wi11 G. Wilkinson and H. G. Hicks, Phys. Rev. **75**, 696 (1949).
2012Gr19 J. L. Gross and M. Thoennessen, At. Data Nucl. Data Tables **98**, 983 (2012).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”