

¹⁴⁵Ba

Grapengiesser et al. reported the observation of ¹⁴⁵Ba in “Survey of short-lived fission products obtained using the isotope-separator-on-line facility at Studsvik” in 1974 ([1974Gr29](#)). ¹⁴⁵Ba was produced and identified at the OSIRIS isotope-separator online facility at the Studsvik Neutron Research Laboratory. In the long table of experimental half-lives of many different isotopes the half-life of ¹⁴⁵Ba is quoted as 4.2(5) s. The previous observation of γ -ray transitions attributed to ¹⁴⁵Ba were not sufficiently accurate and not based on firm mass assignment ([1971Ho29](#)).

Adapted from reference ([2010Sh20](#))

- [1971Ho29](#) F. F. Hopkins, G. W. Phillips, J. R. White, C. F. Moore, and P. Richard, *Phys. Rev. C* **4**, 1927 (1971).
- [1974Gr29](#) B. Grapengiesser, E. Lund, and G. Rudstam, *J. Inorg. Nucl. Chem.* **36**, 2409 (1974).
- [2010Sh20](#) A. Shore, A. Fritsch, J. Q. Ginepro, M. Heim *et al.*, *At. Data Nucl. Data Tables* **96**, 749 (2010).

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)”