

## $^{107}\text{Tc}$

$^{107}\text{Tc}$  was observed by von Baeckmann and Feuerstein as described in the 1965 paper “Über Spalt-Technetium I” ([1965Vo06](#)).  $^{239}\text{Pu}$  was irradiated with thermal neutrons in the Karlsruhe FR-2 reactor. The activities were identified by a  $\beta$  absorption analysis following chemical separation: “Für  $^{106}\text{Tc}$  und  $^{107}\text{Tc}$  ergaben sich die Halbwertszeiten zu  $37\pm 4$  s und  $29\pm 3$  s.” [The extracted half-lives for  $^{106}\text{Tc}$  and  $^{107}\text{Tc}$  were  $37\pm 4$  s and  $29\pm 3$  s, respectively.]

Adapted from reference ([2012Ny02](#))

[1965Vo06](#) A. von Baeckmann and H. Feuerstein, *Radiochim. Acta* **4**, 111 (1965).  
[2012Ny02](#) A. Nystrom and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 95 (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)”