

⁹⁰Tc

Iafigliola et al. reported the first observation of ⁹⁰Tc in the 1974 paper “The Mass Excesses of ⁹¹Tc and ⁹⁰Tc” ([1974Ia01](#)). Targets of enriched ⁹²Mo were bombarded with 30 and 40 MeV protons using the McGill University synchrocyclotron. ⁹⁰Tc was identified by measuring γ -rays with a Ge(Li) detector. “Two isomers in ⁹⁰Tc with half-lives of 7.9 ± 0.2 s and 50 ± 2 s have been identified for the first time.”

The latter half-life corresponds to the ground state.

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

[1974Ia01](#) R. Iafigliola, S. C. Gujrathi, B. L. Tracy, and J. K. P. Lee, *Can. J. Phys.* **52**, 96 (1974).

[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)”