

^{189}Tl -1

Isomerism was first established in ^{189}Tl by J.H.Hamilton et al. in 1974 at Oak Ridge National Laboratory, Tennessee, by measuring half-lives of 1.4 m and 2.3 m ([1974Ha10](#)). The longer half-life has been assigned to the ground state. The shorter isomeric state had been observed earlier ([1972Va12](#)) representing the discovery of ^{189}Tl ([2013Fr04](#)).

- [1972Va12](#) T. B. Vandlik, Y. Vandlik, N. G. Zaitseva, Z. Mate *et al.*, Pisma Zh. Eksp. Teor. Fiz. **15**, 386 (1972).
[1974Ha10](#) J. H. Hamilton, E. H. Spejewski, R. L. Mlekodaj, W. D. Schmidt-Ott *et al.*, Bull. Acad. Sci. USSR, Phys. Ser. **38**, 22 (1974).
[2013Fr04](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isomer Database, doi:[10.11578/frib/2572219](https://doi.org/10.11578/frib/2572219)”