^{135}Te

^{135}Te was observed by Denschlag in the 1969 paper "Independent yield of ^{135}I in the thermal neutron fission of ^{235}U, The half-life of ^{135}Te" (1969De13). Uranyl nitrate (90% ^{235}U) was irradiated with thermal neutrons in the Mainz TRIGA-Reactor. Gamma-ray activities of the fission fragments were measured with a NaI(Tl) crystal following chemical separation. "The independent yield of ^{135}I in the thermal neutron fission of ^{235}U (47$\pm$2% of chain yield) and the half-life of ^{135}Te (18$\pm$2 sec) have been determined using a rapid chemical isolation of fission iodine via ion exchange on a preformed AgCl precipitate." A 29.5 s half-life was mentioned by Herrmann (1964He26) quoting a paper presented by Greendale at the 1962 Discussion on Nuclear Chemistry (Fission and Other Low Energy Nuclear Processes) in Oxford.

Adapted from reference (2013Ka01)

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