

## <sup>102</sup>Nb

<sup>102</sup>Nb was identified for the first time by Trautmann et al. in the 1972 paper “Identification of Short-Lived Isotopes of Zirconium, Niobium, Molybdenum, and Technetium in Fission by Rapid Solvent Extraction Techniques” (1972Tr08). <sup>235</sup>U and <sup>239</sup>Pu targets were irradiated with thermal neutrons at the Mainz Triga reactor. Following chemical separation,  $\gamma$ -ray spectra were recorded with a Ge(Li) detector. “2.9-sec <sup>102</sup>Nb. The decay curve of the 296.0 keV  $\gamma$ -ray indicates a niobium isotope of  $2.9\pm 0.4$  sec half-life.”

Adapted from reference (2012Ny02)

1972Tr08 N. Trautmann, N. Kaffrell, H. W. Behlich, H. Folger *et al.*, *Radiochim. Acta* **18**, 86 (1972).

2012Ny02 A. Nystrom and M. Thoennessen, *At. Data Nucl. Data Tables* **98**, 95 (2012).

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