

¹¹⁶I

The observation of ¹¹⁶I was reported in “On-line mass separator investigation of the new isotope 2.9-sec ¹¹⁶I” in 1976 by Gowdy et al. (1976Go02). A 83 MeV ¹⁶O beam from the Oak Ridge isochronous cyclotron bombarded a ¹⁰³Rh target forming ¹¹⁶I in the (3n) fusion-evaporation reaction. Reaction products were separated and analyzed with the UNISOR on-line isotope separator. “Using on-line mass separation ¹¹⁶I has been identified and its half-life determined to be 2.91±0.15 sec” A 2.9(2) s half-life had been reported by the UNISOR collaboration in a first overview of their program (1974Ha10). Previously only an upper limit of ≪0.5 min had been reported (1969Ha03) and a measurement of a ~2 min half-life (1969Sp07) was incorrect.

Adapted from reference (2013Ka01)

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