^{70}Br

Alburger discovered ^{70}Br in 1978 and reported the results in "Half-Lives of ^{62}Ga, ^{66}As, and ^{70}Br" (1978Al23). A 44 MeV ^{14}N beam accelerated by the Brookhaven MP Tandem Van de Graaff bombarded an enriched ^{58}Ni foil. ^{70}Br was produced in the fusion-evaporation reaction ^{56}Ni(^{14}N,2n)^{70}Br and identified by measuring the β-ray decay curve following activation with an NE102 scintillation detector. "Six runs were made on ^{70}Br totaling about 50 hours of data taking. By analysis of the results... the value adopted for the half-life of ^{70}Br is 80.2$\pm$0.8 ms. Although firm proof is lacking that the observed activity is in fact ^{70}Br, the assignment is highly probable because of the agreement of both the measured yield and the half-life with calculated estimates."

Adapted from reference (2012Gr02)

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