^{79}Br IT decay (4.85 s) 1968Bo52,1967Sc14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

Parent: ^{79}Br: E=207.58 *9*; $J^\pi=9/2^+$; $T_{1/2}$=4.85 s *4*; %IT decay=100.0

^{79}Br-E,J^π,$T_{1/2}$: From Adopted Levels.

Others ($T_{1/2}$,γ): 1986Al11, 1974Co11, 1973Ve11, 1972Jo05, 1970JoZZ, 1970Ru08, 1969Ru10, 1967Yu01, 1967Bo26, 1967Ab08, 1963Ka34, 1962An13, 1960Ho11, 1954Sc37.

Population of the isomer in (γ,γ'): 1995Kh02, 1993Ca24, 1993Ma06, 1991Ca03, 1989An07 (E<6 MeV), 1969Ab11.

2009Mu15: ^{79m}Br produced by irradiating a KBr powder (12.87 g) with intense ^{60}Co γ-ray source. The irradiation time was set to 100 s, average transport time was 3.88 s, and the data acquisition time was 30 s. The γ-rays were detected using a Ge detector. Measured: $T_{1/2}$.

^{79}Br Levels

E(level)†	J^π†	$T_{1/2}$†
0.0	$3/2^-$	
207.58 *9*	$9/2^+$	4.85 s *4*

† From Adopted Levels.

$\gamma(^{79}$Br)

E_γ	I_γ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α†	$I_{(\gamma+ce)}$‡	Comments
207.5 *1*	76.3 *3*	207.58	$9/2^+$	0.0	$3/2^-$	E3	0.311 *5*	100	ce(K)/(γ+ce)=0.202 *3*; ce(L)/(γ+ce)=0.0314 *6*; ce(M)/(γ+ce)=0.00500 *9* ce(N)/(γ+ce)=0.000415 *7* α(K)=0.265 *5*; α(L)=0.0413 *7*; α(M)=0.00657 *11* α(N)=0.000544 *9* E_γ: from Adopted Gammas. Other: 207.2 *4* (1974Co11). I_γ: from I(γ+ce) and α. Mult.: from α(K)exp=0.25 *2* (1967Sc14).

† From BrIcc code v2.3b (16-Dec-2014) 2008Ki07, "Frozen Orbitals" approximation.

‡ Absolute intensity per 100 decays.

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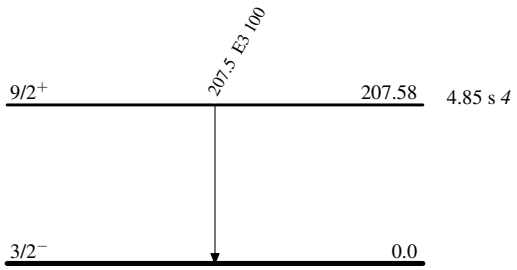
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT=100.0



$^{79}_{35}Br_{44}$