

^{35}S β^- decay (87.61 d)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Lijie Sun and Jun Chen		NDS 211,1 (2026)	30-Sep-2025

Parent: ^{35}S : $E=0$; $J^\pi=3/2^+$; $T_{1/2}=87.61$ d 24; $Q(\beta^-)=167.322$ 26; $\% \beta^-$ decay=100

^{35}S - $Q(\beta^-)$: From [2021Wa16](#).

^{35}S - $J^\pi, T_{1/2}$: From the Adopted Levels of ^{35}S .

[1983Ra04](#): $Q(\beta^-)=166.74$ keV 26.

[1985Ap01](#): $Q(\beta^-)=167.29$ keV 3.

[1985Oh06](#): $Q(\beta^-)=167.4$ keV 1.

[1985Al11](#): Upper limit for 17 keV neutrino: 0.4%.

[1985Oh06](#), [1992Hi06](#), [1993Ab11](#), [1993Be21](#), [1993Mo01](#): Deduced evidence against 17 keV neutrino.

[1994Bo33](#): Deduced spurious 17 keV neutrino signal origin.

[1995Bo43](#): $Q(\beta^-)=167.60$ keV 5 and upper limit for 17 keV neutrino is 1.8×10^{-3} .

[1995Mo17](#): Proposed 17 keV neutrino hypothesis exclusion.

Others: [2008Al39](#), [2000Ho13](#), [1999Oh09](#), [1996Je06](#), [1994Gr04](#), [1994Ho35](#), [1994Mu26](#), [1993Gi08](#), [1993Gr07](#), [1992Ch27](#), [1989Ba04](#),

[1989Ta08](#), [1988Ch45](#), [1987Ge04](#), [1987Na22](#), [1985Ma59](#), [1999Pa18](#).

^{35}S decay leads only to the ground state of ^{35}Cl .

 ^{35}Cl Levels

E(level)	J^π	Comments
0	$3/2^+$	J^π : From the Adopted Levels.

 β^- radiations

av $E\beta$: [Additional information 1](#).

E(decay)	E(level)	$I\beta^{-\dagger}$	Log ft	Comments
(167.3 14)	0	100	5.023 2	av $E\beta=48.2760$ 84

\dagger Absolute intensity per 100 decays.