



1 Decay Scheme

S-35 disintegrates 100% by beta-minus decay to the ground state of the stable nuclide Cl-35.

Le soufre 35 se désintègre à 100% par émission bêta moins vers le niveau fondamental de chlore 35.

2 Nuclear Data

$$\begin{aligned}
 T_{1/2}(^{35}\text{S}) &: 87,25 \quad (15) \quad \text{d} \\
 Q^{-}(^{35}\text{S}) &: 167,33 \quad (3) \quad \text{keV}
 \end{aligned}$$

2.1 β^{-} Transitions

	Energy keV	Probability $\times 100$	Nature	lg ft
$\beta_{0,0}^{-}$	167,33 (3)	100	Allowed	5,01

3 Electron Emissions

	Energy keV	Electrons per 100 disint.
$\beta_{0,0}^{-}$	max: 167,33 (3)	100
$\beta_{0,0}^{-}$	avg: 48,79 (1)	

4 Main Production Modes

$$\left\{ \begin{array}{l} \text{S} - 34(n,\gamma)\text{S} - 35 \\ \text{Possible impurities : none} \end{array} \right.$$

5 References

- H.LEVI. Nature 145 (1940) 588
(Half-life)
- M.D.KAMEN. Phys. Rev. 60 (1941) 537
(Half-life)
- R.N.HENDRICKS, *et al.*. J. Phys. Chem. 47 (1943) 469
(Half-life)
- W.MAURER. Z. Naturforsch 4a (1949) 150
(Half-life)
- G.RUDSTAM, P.C.STEVENSON, P.L.FOLDER. Phys. Rev. 87 (1952) 358
(Half-life)
- H.H.SELIGER, W.B.MANN, L.M.CAVALLLO. J. Research NBS 60 (1958) 447
(Half-life)
- R.D.COOPER, E.S.COTTON. Science 129 (1959) 1360
(Half-life)
- J.P.CALI, L.F.LOWE. Nucleonics 17 (1959) 86
(Half-life)
- Y.OZIAS, *et al.*. Compt. Rend. 253 (1961) 2944
(Half-life)
- E.I.WYATT, *et al.*. Nucl. Sci. Eng. 11 (1961) 74
(Half-life)
- K.F.FLYNN, L.E.GLENDENIN, E.P.STEINBERG. Nucl. Sci. Eng. 22 (1965) 416
(Half-life)
- E.J.WOODHOUSE, T.H.NORRIS. J. Inorg. Nucl. Chem. 301 (1968) 1373
(Half-life)
- F.LAGOUTINE, *et al.*. Int. J. Appl. Radiat. Isotop. 20 (1969) 868
(Half-life)
- L.PALERMO, *et al.*. Nucl. Instrum. Methods Phys. Res. A423 (1999) 337
(Half-life)
- G.AUDI, W.MENG. Private communication (2011)
(Q)

