

^{33}P β^- decay (25.35 d) 1984Po09

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 112, 1393 (2011)	31-Mar-2011

Parent: ^{33}P : $E=0$; $J^\pi=1/2^+$; $T_{1/2}=25.35$ d 11 ; $Q(\beta^-)=248.5$ 11 ; $\% \beta^-$ decay=100.0

^{33}P - $Q(\beta^-)$: from 2009AuZZ and 2003Au03.

1984Po09: Measured decay Q-value. Other: 2004Si04.

Half-life measurements: 1972La14, 1972La14, 1954Ni06, 1952Je12, 1952Westermark: Phys Rev 88, 573; 1951Sheline: Phys Rev 83, 919.

$E\beta$ measurements: 1954Ni06; 1954Elbek: Phys Rev 95, 96; 1952Westermark: Phys Rev 88, 573; 1952Je12; 1951Sheline: Phys Rev 83, 919.

No γ activity detected: 1952Westermark: Phys Rev 88, 573; 1954Langevin: J Phys Rad 15, 778.

 ^{33}S Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>
0	$3/2^+$	stable

 β^- radiations

<u>E(decay)</u>	<u>E(level)</u>	<u>$I\beta^{-\dagger}$</u>	<u>Log ft</u>	<u>Comments</u>
(248.5 11)	0	100	5.022 7	av $E\beta=76.43$ 39

\dagger Absolute intensity per 100 decays.