
 ^{32}P β^- decay (14.266 d) [2002Un02,1994Co02,1979Pr14](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

Parent: ^{32}P : $E=0$; $J^\pi=1^+$; $T_{1/2}=14.266$ d 4; $Q(\beta^-)=1710.66$ 4; $\% \beta^-$ decay=100

^{32}P - $T_{1/2}$: From ^{32}P Adopted Levels.

^{32}P - $Q(\beta^-)$: From [2021Wa16](#).

Half-life measurements: [2002Un02](#), [1994Co02](#), [1979Pr14](#), [1977Mu07](#), [1977Be59](#), [1969La34](#), [1969Pe04](#), [1966Go16](#), [1961Ma46](#), [1959Ro51](#), [1958Da10](#), [1957An03](#), [1950Ba94](#), [1953Lo09](#), [1951Si25](#), [1948KI28](#), [1940Mu01](#), [1938Ca01](#), [1938Ca02](#), [1937Ne02](#), [1936Si01](#), [1935Pr01](#), [1934Am01](#).

[2000Ga56](#): measurement of effect on half-life by chiral molecular solvents with right-handed and left-handed polarizations. The authors report a maximum change of 1.52% in $T_{1/2}$ with values ranging from 14.28 d 8 (standard value from literature used as reference for sample in water) to 14.07 d 8 for right handed 2-phenylbutyric acid. These measurements need to be verified independently.

β -endpoint energy measurements: [2001Ko07](#), [1993Gr17](#), [1979Pr14](#), [1976Mo12](#), [1971Ze04](#), [1971Pe03](#), [1971Bo01](#), [1969Fi02](#), [1968Fi04](#), [1966Ca10](#), [1963Bo31](#), [1961Fe10](#), [1961Ni02](#), [1958Jo33](#), [1958Da10](#), [1957Ri41](#), [1956Po07](#), Antoneva (Izv Akad Nauk Fiz 18,93 (1954)), [1952Je12](#), [1950Ba94](#), [1950Ag01](#), [1950Wa76](#), [1949La06](#), [1946Si09](#), [1938Ca02](#), [1937Ne02](#).

Internal Bremsstrahlung measurement: [2022Au02](#).

[Additional information 1](#).

From RADLIST code, deduced energy balance=1710.6 keV 2 as compared to 1710.66 keV 4 from Q value.

 ^{32}S Levels

E(level)	J^π
0	0^+

[†] From Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-$	Log ft	Comments
(1710.7 14)	0	100	7.8999 1	av $E\beta=694.587$ 19

[†] Absolute intensity per 100 decays.