

${}^{40}\text{K}(\gamma,\gamma)$:Mossbauer 2000Se01,1965Ru02,1965Ha14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

2000Se01, 2002Se12: Harmonic radiation was produced from the JAERI beam line (BL11XU) of the SPring-8. Target was KCl powder. Photons were detected with a Si avalanche photodiode (APD). Measured E_γ , $\gamma(t)$. Deduced $T_{1/2}$.

1965Ru02: measured scattering At 90° .

1965Ha14: measured absorption; deduced isomer shift, linewidth.

Other: 1968Ts01.

 ${}^{40}\text{K}$ Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	4^-		
29.834 11	3^-	4.13 ns 12	$T_{1/2}$: from 2000Se01 (also reported In 2002Se12). Other: 4.3 ns 9 (1965Ha14).

[†] From Adopted Levels.

 $\gamma({}^{40}\text{K})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
29.834 11	29.834	3^-	0	4^-	E_γ : from 2000Se01 and 2002Se12.

 ${}^{40}\text{K}(\gamma,\gamma)$:Mossbauer 2000Se01,1965Ru02,1965Ha14Level Scheme