

$^{35}\text{Cl}(\text{K}^-, \text{x ray } \gamma), ^{37}\text{Cl}(\text{K}^-, \text{x ray } \gamma)$ 1972Wi04

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

Includes $^{32}\text{S}(\text{K}^-, \text{X}\gamma)$.

Kaon capture in targets containing chlorine and ^{32}S .

1972Wi04: $E \approx 0$, kaons from Lawrence Berkeley laboratory facility. Measured gamma-ray yield for several competing reaction channels involving the emission of pions, neutral kaons and hyperons. Only one γ ray from the first excited state of ^{32}P is seen.

 ^{32}P LevelsE(level)

0
78.1 1

 $\gamma(^{32}\text{P})$

<u>E_γ</u>	<u>I_γ</u>	<u>$E_i(\text{level})$</u>	<u>E_f</u>	Comments
78.1 1	5	78.1	0	E_γ : from measurements with ^{35}Cl and ^{37}Cl targets (1972Wi04). I_γ : yield for 100 stopped kaons with ^{35}Cl target. Others: 4 per stopped 100 kaons for ^{37}Cl target and 1 for ^{32}S target (1972Wi04).

 $^{35}\text{Cl}(\text{K}^-, \text{x ray } \gamma), ^{37}\text{Cl}(\text{K}^-, \text{x ray } \gamma)$ 1972Wi04Level Scheme

Intensities: Per 100 stopped kaons

