

$^{24}\text{Na}$  IT decay (20.18 ms)

| Type            | Author                                     | History | Citation          | Literature Cutoff Date |
|-----------------|--|---------|-------------------|------------------------|
| Full Evaluation | M. Shamsuzzoha Basunia, Anagha Chakraborty |         | NDS 186, 2 (2022) | 31-Mar-2022            |

Parent:  $^{24}\text{Na}$ : E=472.2071 14;  $J^\pi=1^+$ ;  $T_{1/2}=20.18$  ms 10; %IT decay $\approx$ 100.0

 $^{24}\text{Na}$  Levels

| E(level)    | $J^\pi$ † | $T_{1/2}$ † | Comments  |
|-------------|-----------|-------------|---|
| 0           | 4+        | 14.956 h 3  |   |
| 472.2071 14 | 1+        | 20.18 ms 10 | $T_{1/2}$ : Adopted value from weighted average of 19.9 ms 3 (1961Sc09), 20.1 ms 2 (1970Ch37), 20.21 ms 14 (1972Br53) and 20.22 ms 10 (1980Jo11). |

† From Adopted Levels.

 $\gamma(^{24}\text{Na})$ 

| $E_\gamma$ † | $I_\gamma$ # | $E_i$ (level) | $J_i^\pi$ | $E_f$ | $J_f^\pi$ | Mult. | $\alpha^\ddagger$     | $I_{(\gamma+ce)}$ # | Comments  |
|--------------|--------------|---------------|-----------|-------|-----------|-------|-----------------------|---------------------|---|
| 472.2023 14  | 99.95        | 472.2071      | 1+        | 0     | 4+        | [M3]  | $4.69 \times 10^{-4}$ | 100                 | $\alpha(K)=0.000442$ 7; $\alpha(L)=2.67 \times 10^{-5}$ 4;<br>$\alpha(M)=5.95 \times 10^{-7}$ 9<br>$I_\gamma$ : From $I_{(\gamma+ce)}$ and $\alpha$ . |

† From Adopted Gammas.

‡ [Additional information 1.](#)

# For absolute intensity per 100 decays, multiply by  $\approx 0.9995$ .

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 **${}^{24}\text{Na}$  IT decay (20.18 ms)****Decay Scheme**

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays  
%IT  $\approx$  100.0

