

$^{100}\text{Mo}(\text{}^3\text{He,d})$ 1975Ch23

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|--------------|---------------------|------------------------|
| Full Evaluation | Jean Blachot | ENSDF | 1-Jul-2006 |

E= 18 MeV.

Energy resolution (semi): FWHM= 45 keV.

 ^{101}Tc Levels

ΔE : Uncertainty $\approx \pm 0.5\%$.

| E(level) | J $^{\pi}$ | L ‡ | C 2 S | Comments |
|----------|------------|-----------------|---------------------------------|--|
| 0.0 | 9/2 $^{+}$ | 4 | 0.55 | |
| 207 | 1/2 $^{-}$ | 1 | 0.41 | |
| 288 | | 1 | 0.13,0.31 $^{\#}$ | |
| 394 | 5/2 $^{-}$ | 3 | 0.089 | |
| 515 | | 2 | 0.047,0.12 $^{\textcircled{a}}$ | |
| 620 | | 1 | 0.007,0.02 $^{\#}$ | E(level): probably corresponds with 622-keV state populated in ^{101}Mo β^{-} decay. Level=616 is ruled out by deexcitation to 7/2 $^{+}$ state. |
| 670 | 5/2 $^{-}$ | 3 | 0.076 | |
| 890 | | (2,4) | | |
| 1045 | | 1 | 0.009,0.02 $^{\#}$ | |
| 1197 | | 1 | 0.023,0.05 $^{\#}$ | |
| 1280 | | 2 | 0.014,0.03 $^{\textcircled{a}}$ | |
| 1319 | | 2 | 0.014,0.03 $^{\textcircled{a}}$ | |
| 1429 | | 2 | 0.067,0.13 $^{\textcircled{a}}$ | |
| 1490 | | 2 | 0.044,0.08 $^{\textcircled{a}}$ | |
| 1578 | | 2 | 0.056,0.11 $^{\textcircled{a}}$ | |
| 1608 | 1/2 $^{+}$ | 0 | 0.053 | E(level): probably corresponds with E(level)=1618 populated via ^{101}Mo β^{-} decay. Levels=1599, 1615 are precluded by γ decays to J=9/2 and/or 7/2 states. |
| 1703 | | 2 | 0.059,0.12 $^{\textcircled{a}}$ | |

† Uncertainty $\approx \pm 0.5\%$.

‡ Deduced from angular distribution 10 $^{\circ}$ –90 $^{\circ}$ in 5 $^{\circ}$ intervals compared with DWBA.

$^{\#}$ C 2 S obtained for J=3/2,1/2, respectively.

$^{\textcircled{a}}$ C 2 S obtained for J=5/2,3/2, respectively.