

| <u><sup>13</sup>C(<math>\mu^-,\nu</math>)</u> |                                            |         |                  |                        |
|-----------------------------------------------|--------------------------------------------|---------|------------------|------------------------|
| Type                                          | Author                                     | History | Citation         | Literature Cutoff Date |
| Full Evaluation                               | J. H. Kelley, C. G. Sheu and J. E. Purcell |         | NDS 198,1 (2024) | 1-Aug-2024             |

[1987Su06](#), [1981SuZS](#): <sup>13</sup>C( $\mu^-,\nu$ ), E at rest, measured muonic capture lifetime.

[2016Ab02](#): Deduced cross section limit for the <sup>13</sup>C( $\mu^-,\nu$ )<sup>13</sup>B reaction obtained in the Double Chooz detector and discussed cosmogenic production of radionuclides. See similar discussion in ([2010Ab05](#), [2019Zh29](#)).

*Theoretical analyses.*

[1973Mu11](#): <sup>13</sup>C( $\mu^-,\nu$ ), calculated capture cross sections.

[1972Bu29](#): <sup>13</sup>C( $\mu^-,\nu$ ), estimated capture rates to <sup>13</sup>B(0,3.7 MeV).

[1979De01](#): <sup>13</sup>C( $\mu^-,\nu$ ), theory – shell model, calculated partial transition rates for muon capture on 1p-shell nuclei.

[1985Ko39](#): <sup>13</sup>C( $\mu^-,\nu$ ), E at rest, calculated partial muon capture rates, deduced *gp/gA*.

[1998Mu17](#): <sup>13</sup>C( $\mu^-,\nu$ ), calculated total capture rate. (assumed at rest).

| <u>E(level)</u> | <u><sup>13</sup>B Levels</u> |
|-----------------|------------------------------|
| 0               |                              |