

FORMULA 3.552.3

$$\int_0^{\infty} \frac{x^{\mu-1} e^{-x}}{\cosh x} dx = \begin{cases} 2^{1-\mu} (1 - 2^{1-\mu}) \Gamma(\mu) \zeta(\mu) & \mu \neq 1 \\ \ln 2 & \mu = 1 \end{cases}$$