

FORMULA 4.355.2

$$\int_0^{\infty} x(\mu x^2 - \nu x - 1)e^{-\mu x^2 + 2\nu x} \ln x \, dx = \frac{1}{4\mu} + \frac{\nu\sqrt{\pi}}{4\mu\sqrt{\mu}} e^{\nu^2/\mu} \left[ 1 + \operatorname{erf}\left(\frac{\nu}{\sqrt{\mu}}\right) \right]$$