

**FORMULA 3.442.1**

$$\int_0^{\infty} \left\{ 1 - \frac{x+2}{2x}(1 - e^{-x}) \right\} e^{-qx} \frac{dx}{x} = -1 + \left( q + \frac{1}{2} \right) \ln \frac{q+1}{q} \quad q > 0$$