

FORMULA 8.258.2

$$\int_0^{\infty} x \operatorname{erfc}^2 x e^{-\beta x^2} dx = \frac{1}{2\beta} \left(1 - \frac{4}{\pi} \frac{\arctan(\sqrt{1+\beta})}{\sqrt{1+\beta}} \right) \quad \beta > 0$$