

**FORMULA 3.197.1**

$$\int_0^{\infty} x^{\nu-1}(x+a)^{-\mu}(x+b)^{-\rho} dx = a^{-\mu}b^{\nu-\rho}B(\nu, \mu - \nu + \rho)_2F_1[\mu, \nu; \mu + \rho; 1 - b/a]$$