FORMULA 3.315.2

$$\int_{-\infty}^{\infty} \frac{e^{-\mu x}\, dx}{(a + e^{-x})(b + e^{-x})} = -\frac{(a^{\mu-1} - b^{\mu-1})}{a - b}\, \frac{\pi}{\sin \pi \mu}$$