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! For an efficient use of these tables, first read [HowTo.pdf](#).

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T2.67C. Integrands involving product of powers of logarithm functions and rational functions on the interval (a, b) .

$$1. \int_a^b \frac{dx}{x \sqrt{\ln(x/a) \ln(b/x)}} = \pi, \quad ab > 0.$$

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$$2. \int_a^b \left(\ln \frac{x}{a}\right)^{p-1} \left(\ln \frac{b}{x}\right)^{q-1} \frac{dx}{x} = B(p, q) \left(\ln \frac{b}{a}\right)^{p+q-1}, \quad p > 0, q > 0, ab > 0.$$

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