

C4282

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

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**T2.78F.** Integrands involving logarithms and exponentials on the interval  $(0, y)$ .

$$1. \int_0^y \frac{\sin x \ln \cot \frac{x}{2}}{1 - \cos^2 \alpha \sin^2 x} dx = \csc 2\alpha \left\{ \frac{\pi}{2} \ln 2 + L(\varphi - \alpha) - L(\varphi + \alpha) - L\left(\frac{\pi}{2} - 2\alpha\right) \right\},$$

where  $\tan \varphi = \cot \alpha \cos y$ ,  $0 < y < \pi$ .

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