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$$\begin{aligned}\Delta(\log_{10}(a)) &= \left| \frac{\Delta a}{a \cdot \ln(10)} \right| \\ &= \left| \frac{0.25}{5 \cdot 2.30259} \right| \\ &= 0.02171\end{aligned}$$

$$\therefore \log_{10}(a) = 0.69897 \pm 0.02171$$

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