| No. | Source of Uncertainty | Input Magnitude | Original Uncertainty | Type, Distribution | Contribution ($°C^{-1}$) |
|---|---|---|---|---|---|
| 1 | Number of Transitions N | $125$ | - | - | $48{,}0 \times 10^{-9}$ |
| 1a | Maximum N Error | - | $\pm 1$ | B, Rectangular | $48{,}0 \times 10^{-9}$ |
| 2 | Wavelength λ | $532\ nm$ | - | - | $281{,}9 \times 10^{-9}$ |
| 2a | Maximum λ Error | - | $\pm 25\ nm$ | B, Rectangular | $281{,}9 \times 10^{-9}$ |
| 3 | Initial Length $L_0$ | $80\ mm$ | - | - | $3{,}7 \times 10^{-9}$ |
| 3a | Maximum $L_0$ Error | - | $\pm 0{,}05\ mm$ | B, Rectangular | $3{,}7 \times 10^{-9}$ |
| 4 | Object Temperature T | $60\ °C$ | - | - | $75{,}0 \times 10^{-9}$ |
| 4a | Maximum T Error | - | $\pm 0{,}5\ °C$ | B, Rectangular | $75{,}0 \times 10^{-9}$ |
| 5 | Temperature of Reference $T_0$ | $20\ °C$ | - | - | $75{,}0 \times 10^{-9}$ |
| 5a | Maximum $T_0$ Error | - | $\pm 0{,}5\ °C$ | B, Rectangular | $75{,}0 \times 10^{-9}$ |
| - | Coefficient of Thermal Expansion | $1{,}039 \times 10^{-5}\ °C^{-1}$ | - | Normal | $u(\alpha) = 305{,}1 \times 10^{-9}$ |
| Coefficient of thermal expansion $(\alpha) = (1{,}039\ \pm 0{,}062) \times 10^{-5}\ °C^{-1}$ | | | | | |