$$\Delta\left(tanh\left(a\right)\right) = \left|tanh\left(a\right)\right| \sqrt{\left(\frac{\Delta sinh\left(a\right)}{sinh\left(a\right)}\right)^2 + \left(\frac{\Delta cosh\left(a\right)}{cosh\left(a\right)}\right)^2}$$

$$= \left|0.99991\right| \sqrt{0.25002^2 + 0.24998^2}$$

$$= 0.35352$$

$$\therefore tanh\left(a\right) = 0.99991 \pm 0.35352$$