$$\delta = \sqrt{\frac{1010}{f(0)}}\, 10^{\left(\log \mathrm{H} - 1.97274664 + 2.288074 \times 10^{-2}\theta\right)}$$

$$\times 10^{\left(-9.589 \times 10^{-5}\theta^{2} + 3.0 \times 10^{-7}\theta^{3}\right)}$$