$$R\_{2}=\left(\frac{1+2}{1+3∙2}\right)∙\frac{2∙1.38×10^{-23}∙300}{\left(1.7\right)^{2}}\left[\sqrt{1+\left(\frac{1+3∙2}{1+2}\right)\left(\frac{2.5}{2∙1.38×10^{-23}∙300}\right)^{2}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙\frac{8.28×10^{-21}}{2.89}\left[\sqrt{1+\left(\frac{7}{3}\right)\left(3×10^{20}\right)^{2}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙\frac{8.28×10^{-23}}{2.89}\left[\sqrt{2.12×10^{41}}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙\frac{8.28×10^{-23}}{2.89}\left[4.612×10^{20}-1\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙\frac{8.28×10^{-23}}{2.89}\left[4.6×10^{20}\right]$$

$$R\_{2}=\left(\frac{3}{7}\right)∙1.3213$$

$$R\_{2}=0.00566$$