$$\nu_i = \frac{1}{2\pi}\sqrt{\frac{0{,}6}{\lambda_i^{PCA}}} \cdot 2045{,}48 \cdot 10^{10}\ \frac{1}{s}$$

$$\tilde{\nu}_i\ [cm^{-1}] = \frac{1}{2\pi}\frac{\nu_i}{c}\quad \left[\frac{1}{s}\right]\left[\frac{cm}{s}\right] = \frac{1}{2\pi} \cdot 684{,}1\ cm^{-1}\sqrt{\frac{0{,}6}{\lambda_i^{PCA}}}$$

$$\Rightarrow \boxed{\tilde{\nu}_i\,[cm^{-1}] = 108{,}879\sqrt{\frac{0{,}6}{\lambda_i^{PCA}\,[\text{Å}]^2}}}$$

$\tilde{\nu} = \lambda$