

$$\alpha_{\text{CI}(1-0)}^{\text{no Helium}} = 3.78 \times [(\tau_{\text{CI}(1-0)} / (1 - e^{-\tau_{\text{CI}(1-0)})})]$$

$$\text{Approx.} = [0.2 (T_{\text{kin}} / 60)^{-1.2} + 3.8]$$

$$\times (3 \times 10^{-4} \times 0.2) / ([\text{Cl}/\text{H}_2])$$

