

Table 3. Recent measurements of CO₂ reaction rate constants at 25°C and ionic strengths <0.15. Rate constants of this work were taken from Table 2.

| k_{CO_2} ($\times 10^2$) | $k_{\text{OH}^-K_w}$ ($\times 10^{11}$) | k_d ($\times 10^{-4}$) | $k_{\text{HCO}_3^-}$ ($\times 10^4$) | Reference |
|--|--|-------------------------------|---|----------------------------|
| 2.57 | 8.4 | | | Pinsent et al. 1956 |
| | 7.8 | | | Sirs 1958 |
| 3.58 | | 10.2 | | Ho and Sturtevant 1963 |
| 3.75 | | 5.5 | | Gibbons and Edsall 1963 |
| | 8.1 | | | Goodridge and Taylor 1963 |
| 3.88 | 8.0 | 5.3 | | Kernohan 1965 |
| 4.4 | 11.0 | 6.8 | 1.9 | Magid and Turbeck 1968 |
| 3.8 | | | 2.2 | Welch et al. 1969 |
| 3.7 | | | | Khalifah 1971 |
| 2.9 | 6.0 | 4.1 | 2.0 | Pocker and Bjorkquist 1977 |
| 4.0 | | 8.8 | | Knoche 1980 |
| 3.7 | 7.1 | 7.6 | 1.8 | This work |