Henderson–Hasselbalch equation

An equation of the form:

$$pH = pK_a - \log_{10}\left(\frac{[\,HA\,]}{[A^-]}\right)$$

for the calculation of the pH of solutions where the ratio $\frac{[\,HA\,]}{[A^-]}$ is known.

Source:
PAC, 1994, *66*, 1077 *(Glossary of terms used in physical organic chemistry (IUPAC Recommendations 1994))* on page 1120