

Hammett Equation

$$\log \frac{K}{K_o} = \sigma \rho$$

- Substituent Constant
 - Quantitative description of electron donating or withdrawing ability of a substituent

-Z	σ_z	-Z	σ_z
-H	0.00		
-CH ₃	-0.17	-Cl	0.23
-OH	-0.37	-NO ₂	0.78

- These are defined values!
 - $\sigma_z = \log K_z - \log K_H$

- Plot $\log (K/K_o)$ vs σ
 - Slope is ρ
 - If EWG increases K, $\rho =$ positive
 - If EDG increases K, $\rho =$ negative
- The Hammett equation has been modified to understand correlations in rate (k), thermodynamic values (ΔG , ΔH , ΔS), coupling constants (J, a_H), etc. in place of equilibrium constants

Hammett Equation

SJ Ball



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