# 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	σ,
-H	0.00		
-CH <sub>3</sub>	-0.17	-CI	0.23
-OH	-0.37	-NO <sub>2</sub>	0.78

- These are defined values!
  - σ<sub>z</sub> = log K<sub>z</sub> log K<sub>H</sub>

- Plot log (K/K<sub>0</sub>) vs σ
  - Slope is p
  - If EWG increases K, ρ = positive
  - If EDG increases K, ρ = negative
- The Hammett equation has been modified to understand correlations in rate (k), thermodynamic values (ΔG, ΔH, ΔS), coupling constants (J, a<sub>H</sub>), etc. in place of equilibrium constants

## **Hammett Equation**

**Brendan G. Carr** 



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