

2.5.6 Evaluating kinetic parameters

Some last cautionary notes on data fitting

- Taking $1/r$ creates greater statistical emphasis on low (i.e. the least precise) r values → for imprecise r measurement prefer a nonlinear least square fit directly on r
- Check thermodynamic values by varying T° :
 - ΔH_{ads} should be negative
 - For non-dissociative adsorption ΔS_{ads} should also be negative due to loss of degrees of freedom
 - Results that do not meet these criteria should be questioned