

Supplementary Materials: The following is available online at www.mdpi.com/xxx/s1, Table S1
List of the tested non-linear regression models.

Table S1. List of the tested non-linear regression models:

Main non-linear regression models	Subset models
Custom Models	<ul style="list-style-type: none"> - Piecewise Linear - Wavy
Decline Models	<ul style="list-style-type: none"> - Exponential Decline
Distribution Models	<ul style="list-style-type: none"> - Harmonic Decline - Hyperbolic Decline - Log Normal CDF - Log Normal PDF - Normal (Gaussian) CDF - Normal (Gaussian) PDF
Dose-Response Models	<ul style="list-style-type: none"> - DR-Hill - DR-Gamma-Zerobackground - DR-Hill - DR-Hill-Zerobackground - DR-LogLogistic - DR-LogLogistic-Zerobackground - DR-LogProbit - DR-LogProbit-Zerobackground - DR-Logistic - DR-Logistic-Zerobackground - DR-Multistage-1 - DR-Multistage-1-Zerobackground - DR-Multistage-2 - DR-Multistage-2-Zerobackground - DR-Multistage-3 - DR-Multistage-3-Zerobackground - DR-Multistage-4 - DR-Multistage-4-Zerobackground - DR-Probit - DR-Probit-Zerobackground - DR-Weibull - DR-Weibull-Zerobackground
Exponential Models	<ul style="list-style-type: none"> - Exponential - Modified Exponential - Natural Logarithm - Reciprocal Logarithm - Vapor Pressure Model
Growth Models	<ul style="list-style-type: none"> - Exponential Association 2 - Exponential Association 3 - Saturation Growth Rate
Miscellaneous Models	<ul style="list-style-type: none"> - Gaussian Model

	- Heat Capacity - Sinusoidal - Steinhart-Hart Equation - Truncated Fourier Series - Geometric - Hoerl - Modified Geometric - Modified Hoerl - Modified Power - Power - Root - Shifted Power - Gompertz Relation - Logistic - Logistic Power
Power Law Family Models	
Sigmoidal Models	- MMF - Ratkowsky Model - Richards - Weibull Model - Bleasdale-YD - Exponential Plus Linear - Farazdaghi-Harris-YD - Farazdaghi-Quadratiz-YD - Reciprocal Quadratic-YD - Reciprocal-YD
Yield-Density Models	- Bleasdale - Farazdaghi-Harris - Reciprocal - Reciprocal Qaudratic
Yield-Spacing Models	