Function list

If unspecified the function is in its 3 parameter form.

1 Negative exponential 2

$$y = a(1 - \exp(-bx))$$

2 Negative exponential

$$y = a(1 - \exp(-b(x - c)))$$

3 Power

$$y = (ax)^b$$

4 Levakovic

$$y = a(\frac{x^2}{b + x^2})^c$$

5 Levakovic 2

$$y = a(\frac{x^2}{1 + x^2})^b$$

6 Linear

$$y = a + bx$$

7 Logistic 2

$$y = -1 + \frac{(1 + a)\exp bx}{a + \exp bx}$$

8 Unified Richards 4

$$
\begin{aligned}
p_0 &= b^{b/(1-b)} \\
p_1 &= \exp(-dx/p_0) \\
p_2 &= (c/a)^{1-b} - 1 \\
y &= a(1 + p_1 + p_2)^{p_0}
\end{aligned}
$$

9 Morgan-Mercer-Flodin

$$y = \frac{a(x^c)}{b + x^c}$$

10 Power

$$y = c + ax^b$$

11 Michaelis Menten

$$y = c + \frac{x(a-c)}{b+x}$$

12 Weibull

$$y = a(1 - \exp(-b(x^c)))$$

13 Korf

$$y = a \exp(-b(x^{-c}))$$

14 Extreme Value

$$y = a(1 - \exp(-\exp(c + bx)))$$

15 Quadratic

$$y = ax^2 + bx + c$$

16 Gompertz

$$y = a \exp(b \exp(-cx) - 1)$$

17 He Legendre 2

$$y = \frac{a}{1 + x^{-b}}$$

18 He Legendre

$$y = \frac{ab}{b + x^{-c}}$$

19 Logistic

$$y = \frac{a}{1 + \exp(-b(-c + x))}$$

20 von Bertalanffy

$$y = a(1 - \exp(-b(x - c)))^3$$

21 von Bertalanffy 2

$$y = a(1 - \exp(-bx))^3$$

22 Monomolecular

$$y = a(1 - c \exp(-bx))$$

23 Chapman Richards

$$y = a(1 - \exp(-bx))^c$$