Gaussian (gauss):

$$y = y_0 + A\frac{\sqrt{4\ln 2}}{\sqrt{\pi}w}\exp\left[-\frac{4\ln 2}{w^2}(x - x_c)^2\right]$$

Lorentz (lorentz):

$$y = y_0 + A\frac{2}{\pi}\frac{w}{4(x - x_c)^2 + w^2}$$

Pseudo-Voigt 1 (psdVoigt1):

$$y = y_0 + A\left\{\mu\frac{2}{\pi}\frac{w}{4(x - x_c)^2 + w^2} + (1 - \mu)\frac{\sqrt{4\ln 2}}{\sqrt{\pi}w}\exp\left[-\frac{4\ln 2}{w^2}(x - x_c)^2\right]\right\}$$