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# logarithmic normal distribution

*of a macromolecular assembly*

A continuous distribution with the differential mass-distribution function of the form:

$$f_{\mathrm{w}}(x)\,\mathrm{d}x = \frac{1}{a\sqrt{\pi\,x}}\exp\left(-\frac{1}{a^2}\ln^2\frac{x}{b}\right)\mathrm{d}x$$

where $x$ is a parameter characterizing the chain length, such as relative molecular mass or degree of polymerization and $a$ and $b$ are positive adjustable parameters.

***Source:***
Purple Book, p. 57

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