Poisson distribution

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

\[ f_w(x) = \frac{x}{a + 1} = \frac{e^{-a} a^{x-1}}{(x - 1)!} \]

where \( x \) is a parameter characterizing the chain length, such as relative molecular mass or degree of polymerization and \( a \) is a positive adjustable parameter.

Source:
Purple Book, p. 56