SpectroLight 600 In situ DLS working Principle





 $D = \frac{k_b T}{6\pi\eta r_h}$ Stokes-Einstein-Equation

k_b: Boltzmann constant
T: temperature
η: viscosity
r_h: particle radius



With D, the hydrodynamic radius can be calculated, based on the Stokes-Einstein-Equation.

The final result is a size distribution of particles from the sample. An assessment of the concentration ratios, based on the scattered light intensities of each particle population, can be obtained as well. Data collection is thereby non-invasive.