

Supplementary Materials

Special aspects of nitrocellulose molar mass determination by dynamic light scattering

Roman Solovov*, Anfisa Kazberova and Boris Ershov

Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, 40 Obruchev Street, Moscow, 117342 Russia; perevoznikova1723@mail.ru (A.K.); ershov@ipc.rssi.ru (B.E.)

* Correspondence: roman_sоловов@mail.ru

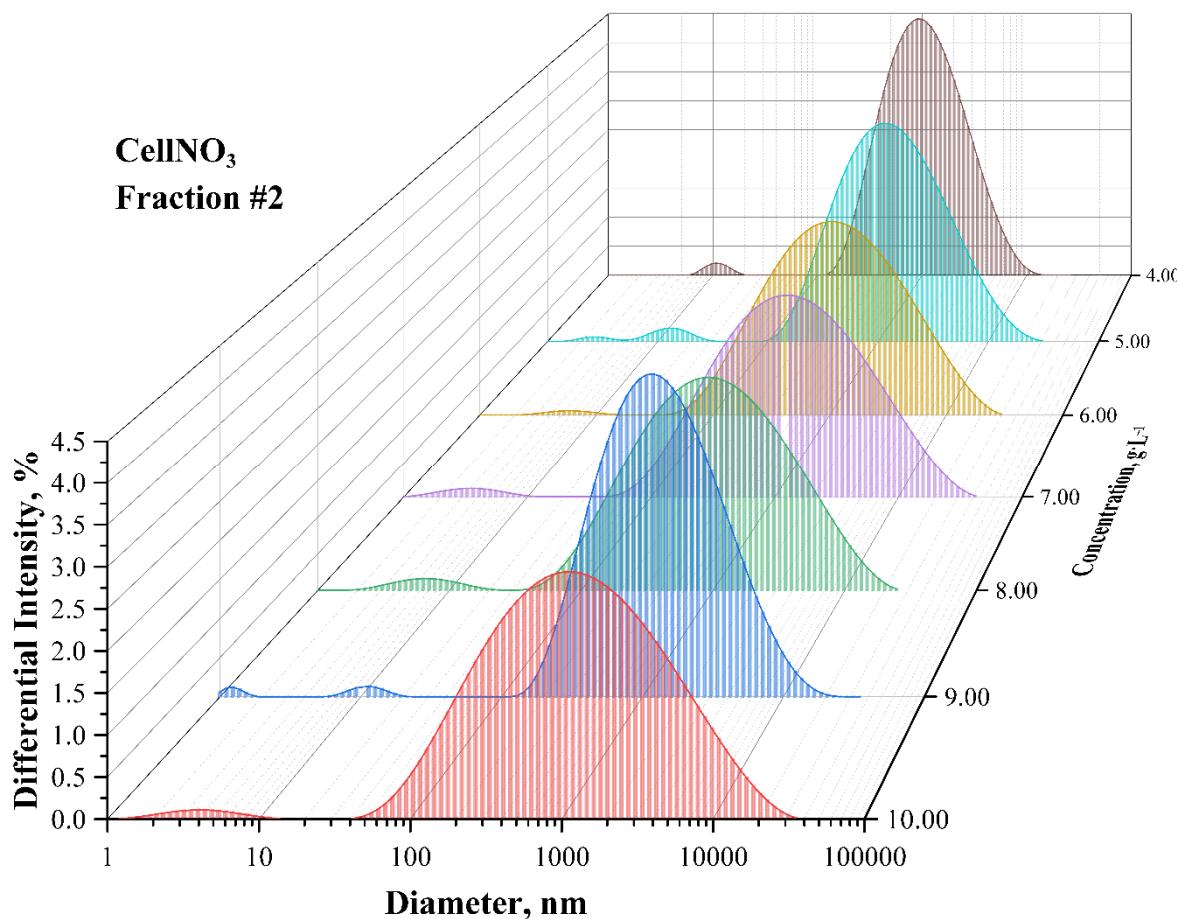


Figure S1. Scattering intensity distribution histograms vs the hydrodynamic diameter for different concentrations solutions of a certain fraction of nitrocellulose (Fraction №2). The data is obtained by the dynamic light scattering method.

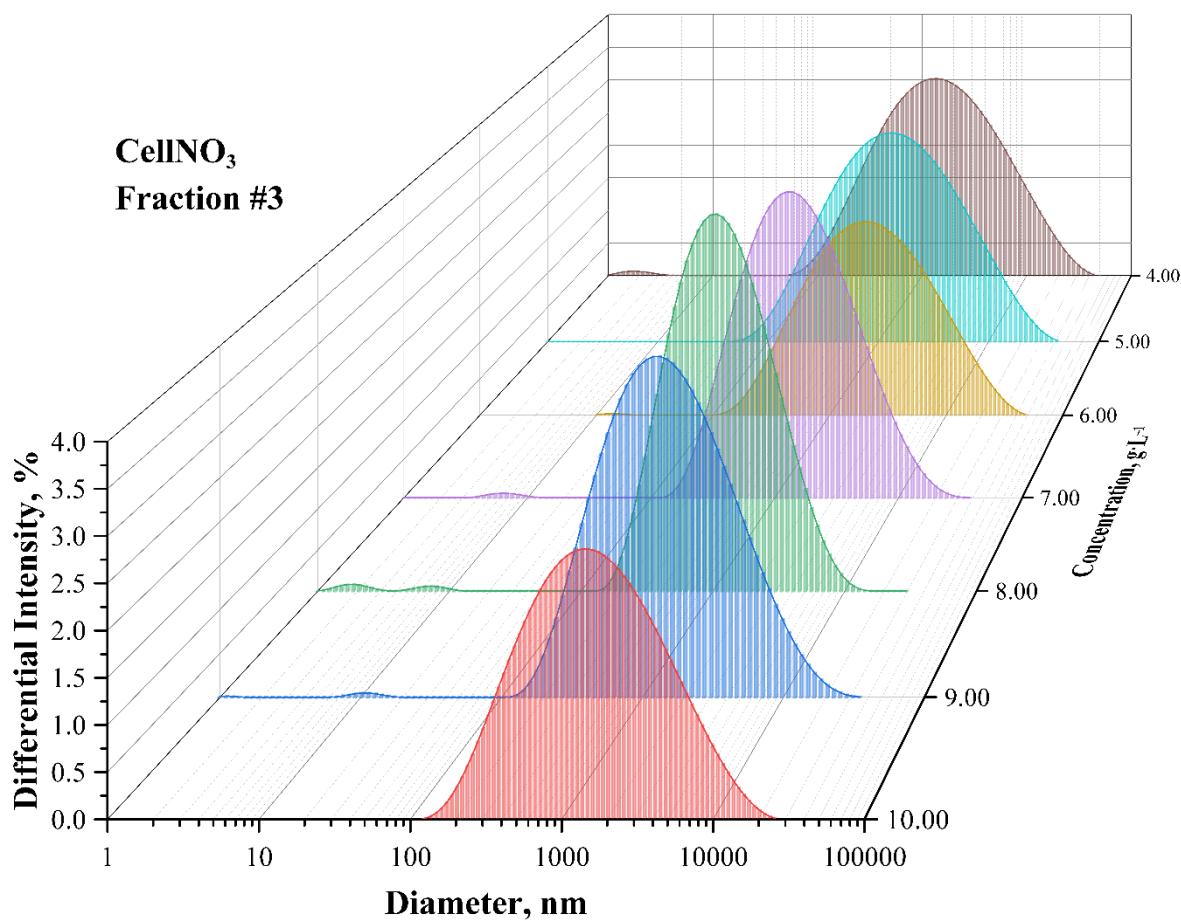


Figure S2. Scattering intensity distribution histograms vs the hydrodynamic diameter for different concentrations solutions of a certain fraction of nitrocellulose (Fraction №3). The data is obtained by the dynamic light scattering method.

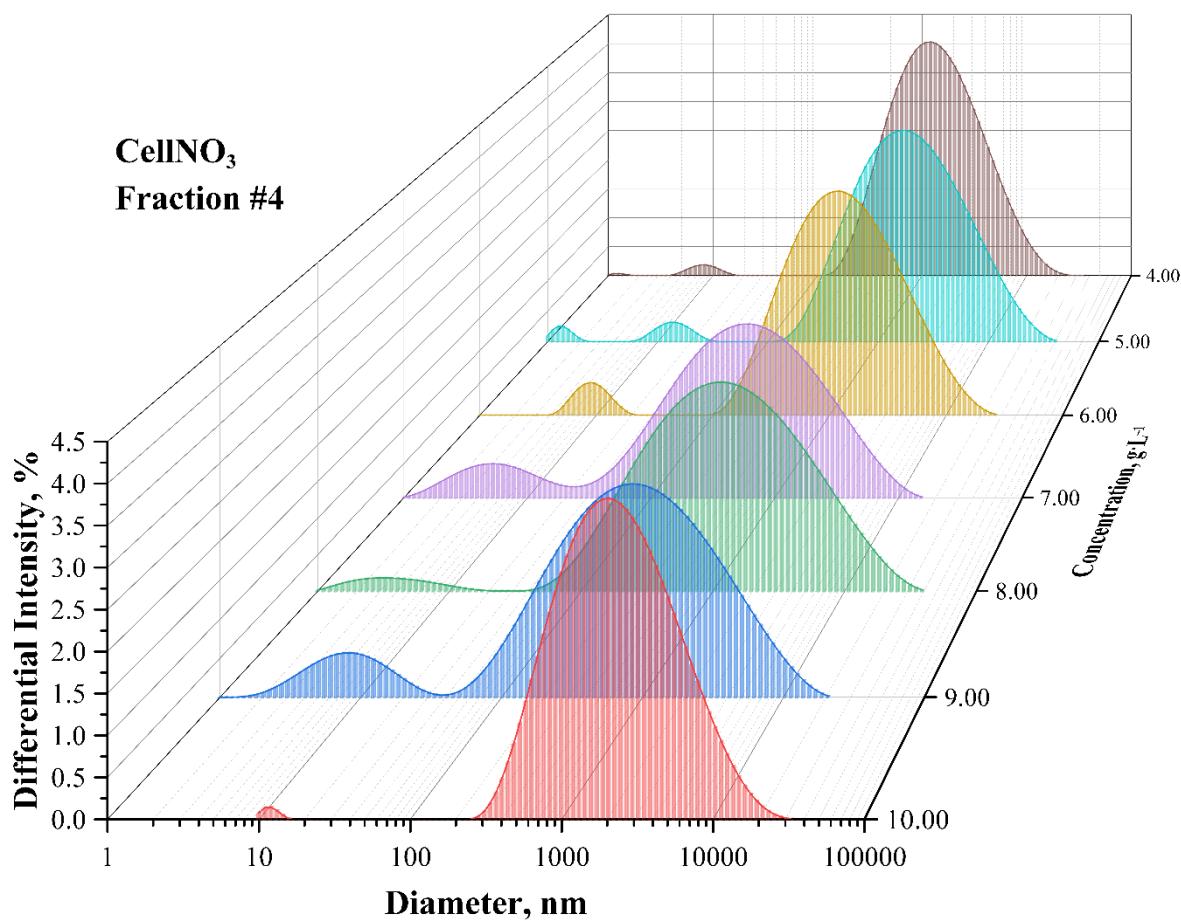


Figure S3. Scattering intensity distribution histograms vs the hydrodynamic diameter for different concentrations solutions of a certain fraction of nitrocellulose (Fraction №4). The data is obtained by the dynamic light scattering method.

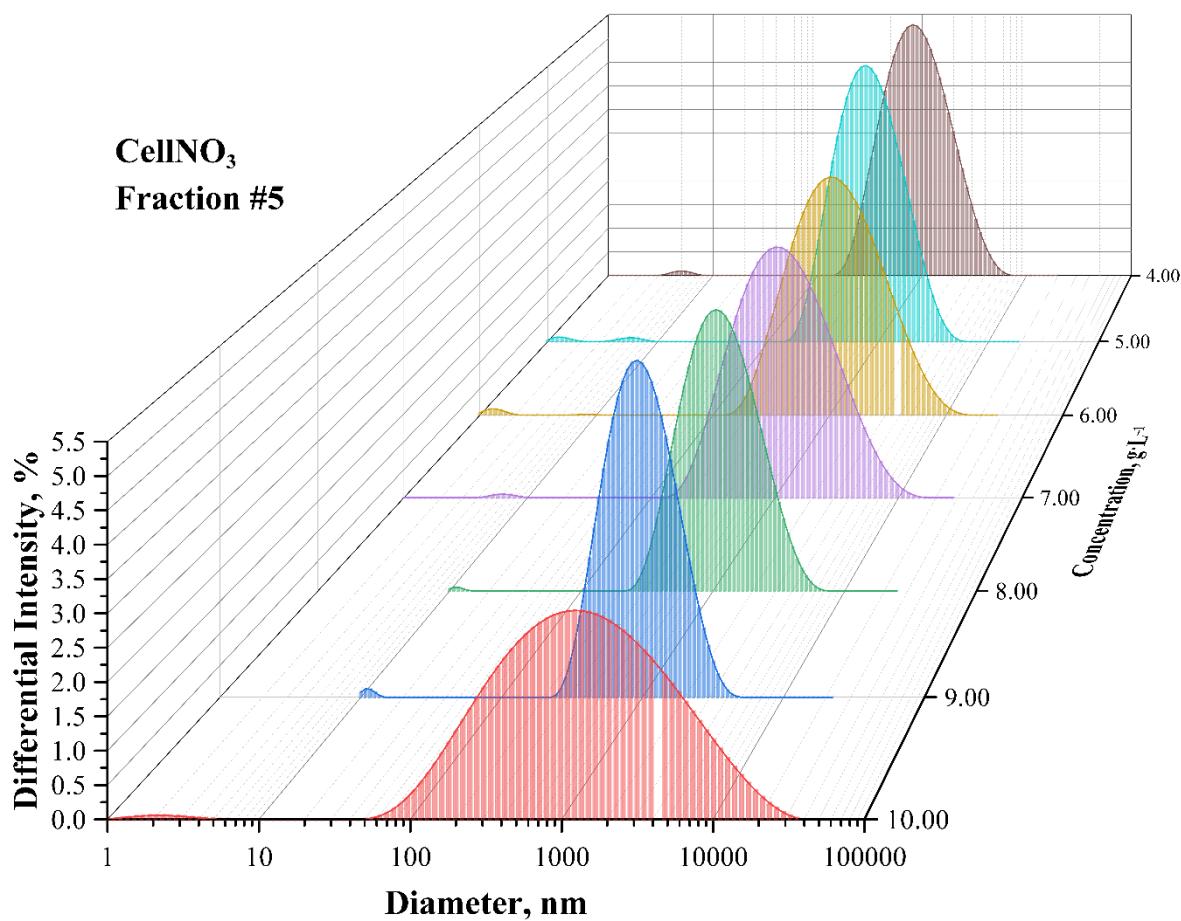


Figure S4. Scattering intensity distribution histograms vs the hydrodynamic diameter for different concentrations solutions of a certain fraction of nitrocellulose (Fraction №5). The data is obtained by the dynamic light scattering method.

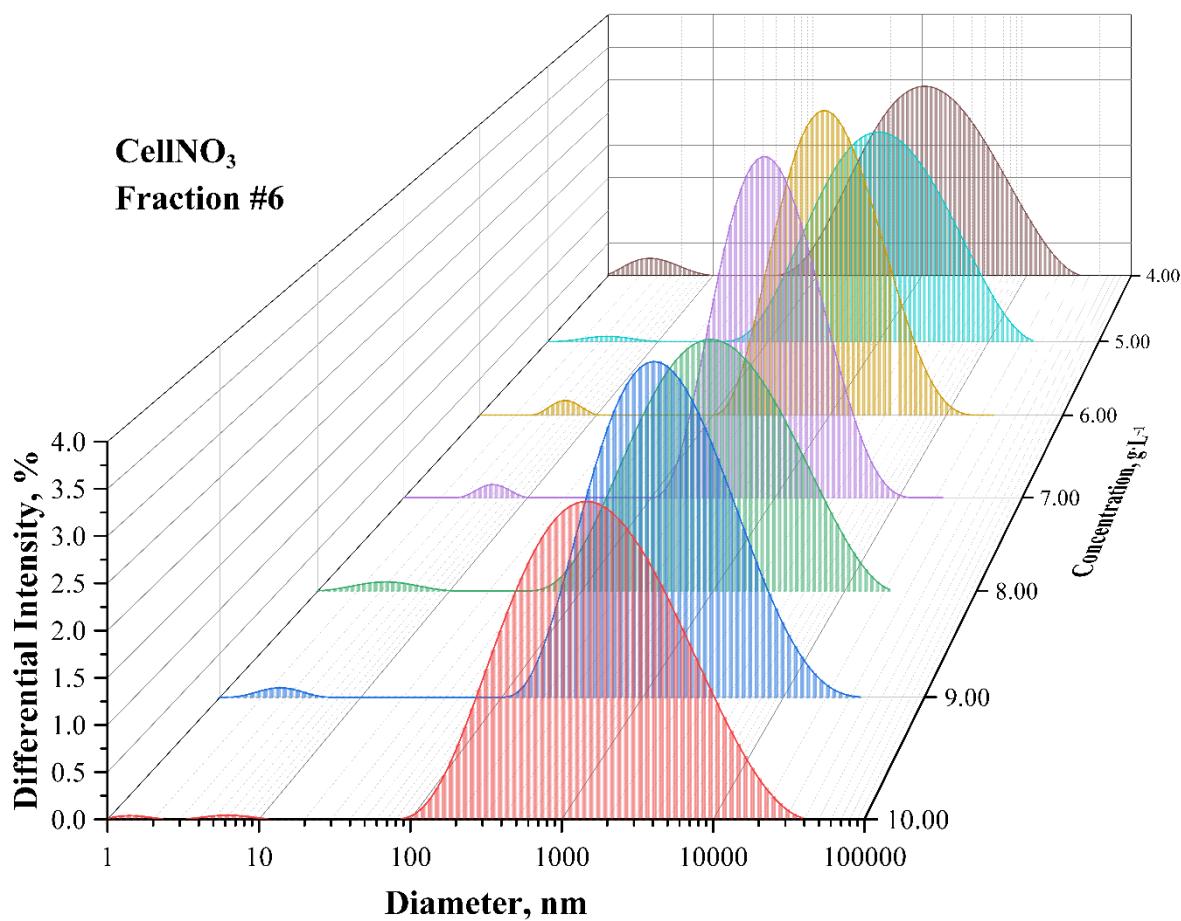


Figure S5. Scattering intensity distribution histograms vs the hydrodynamic diameter for different concentrations solutions of a certain fraction of nitrocellulose (Fraction №6). The data is obtained by the dynamic light scattering method.

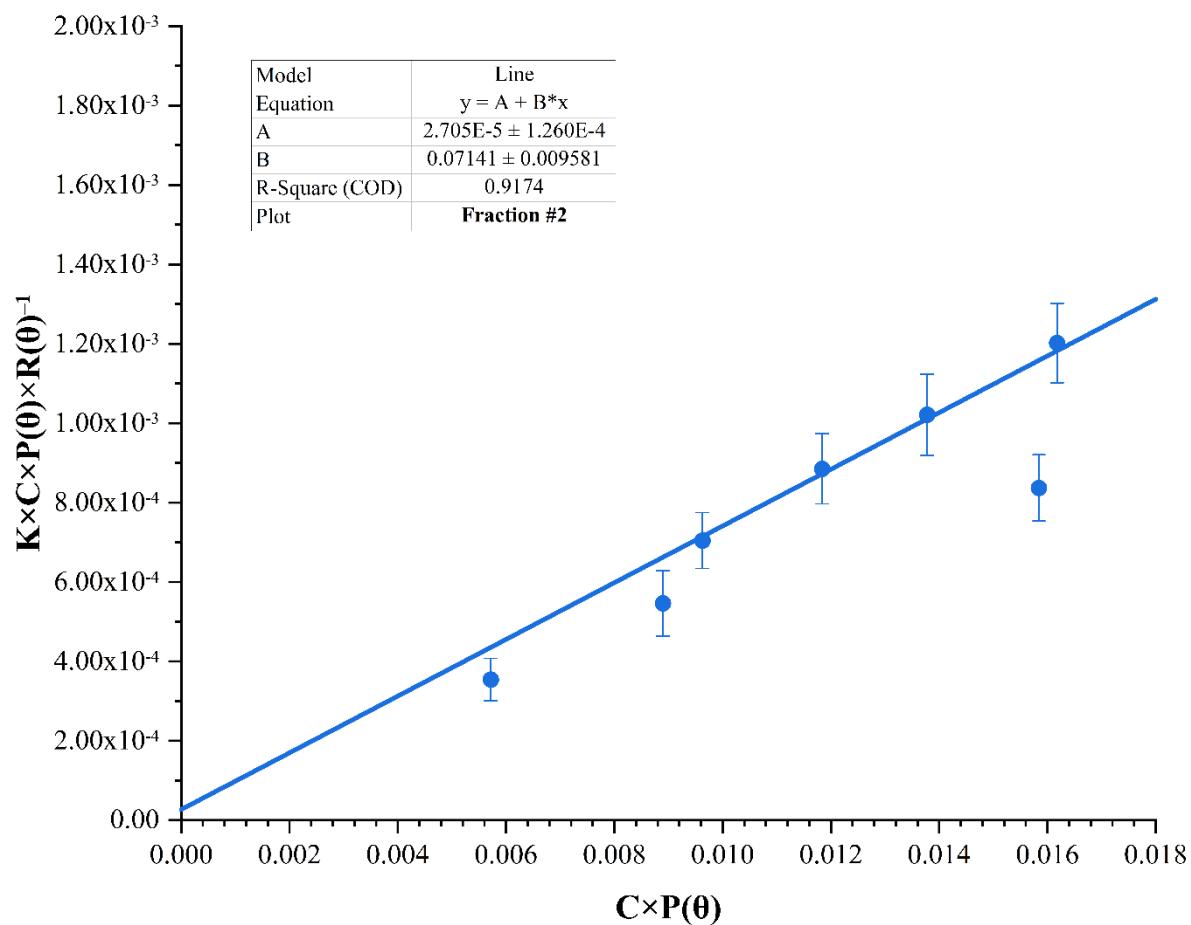


Figure S6. Dependence of specific viscosity η_{sp} on nitrocellulose mass concentration C (fraction №2).

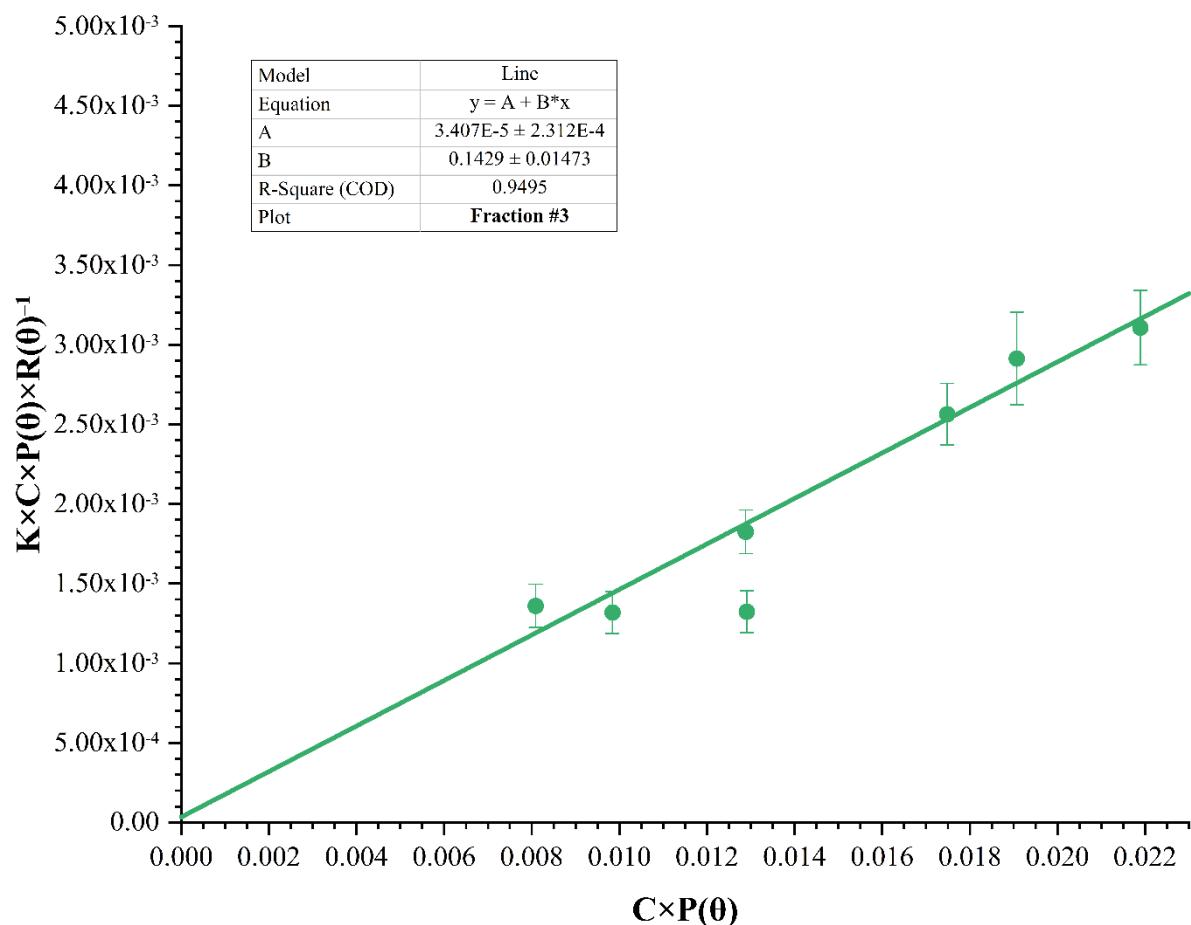


Figure S7. Dependence of specific viscosity η_{sp} on nitrocellulose mass concentration C (fraction №3).

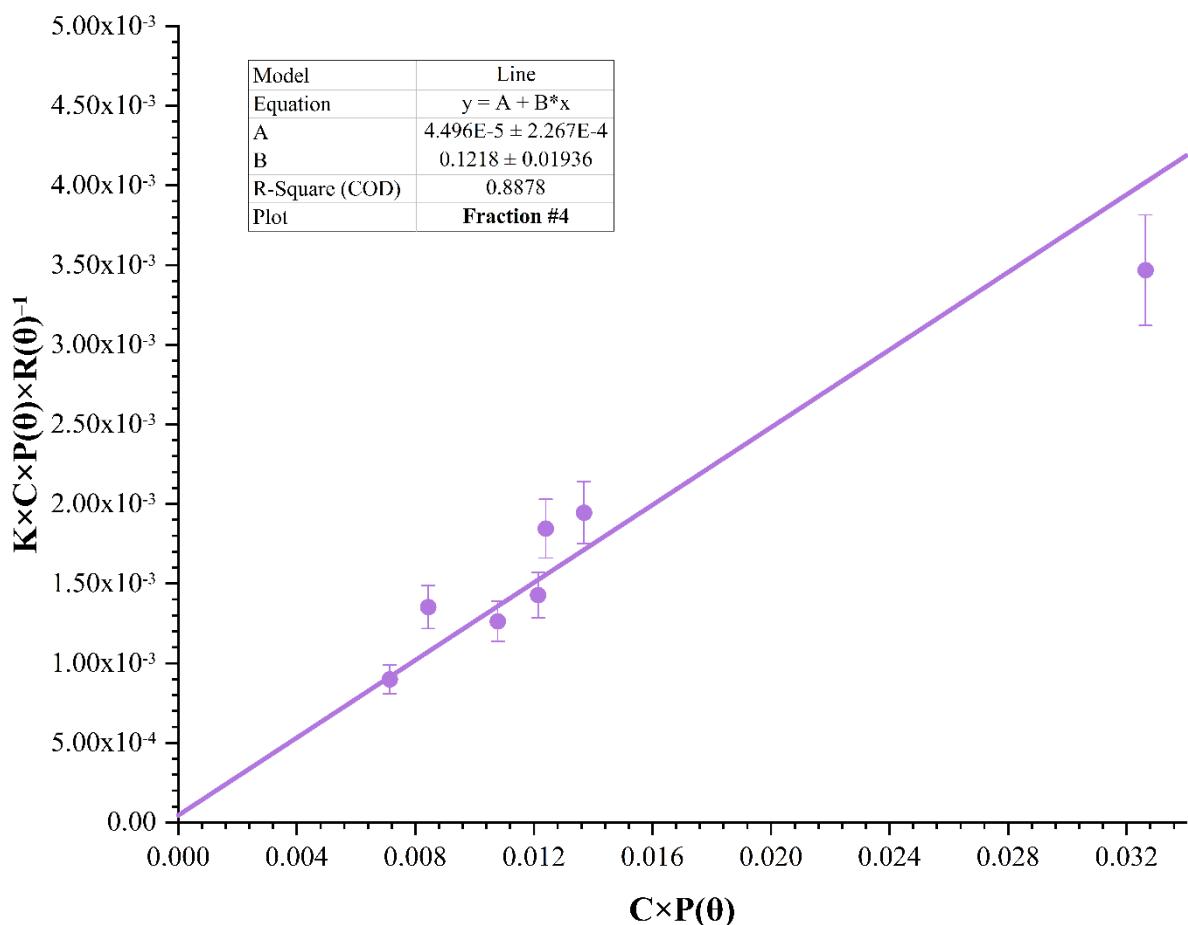


Figure S8. Dependence of specific viscosity η_{sp} on nitrocellulose mass concentration C (fraction №4).

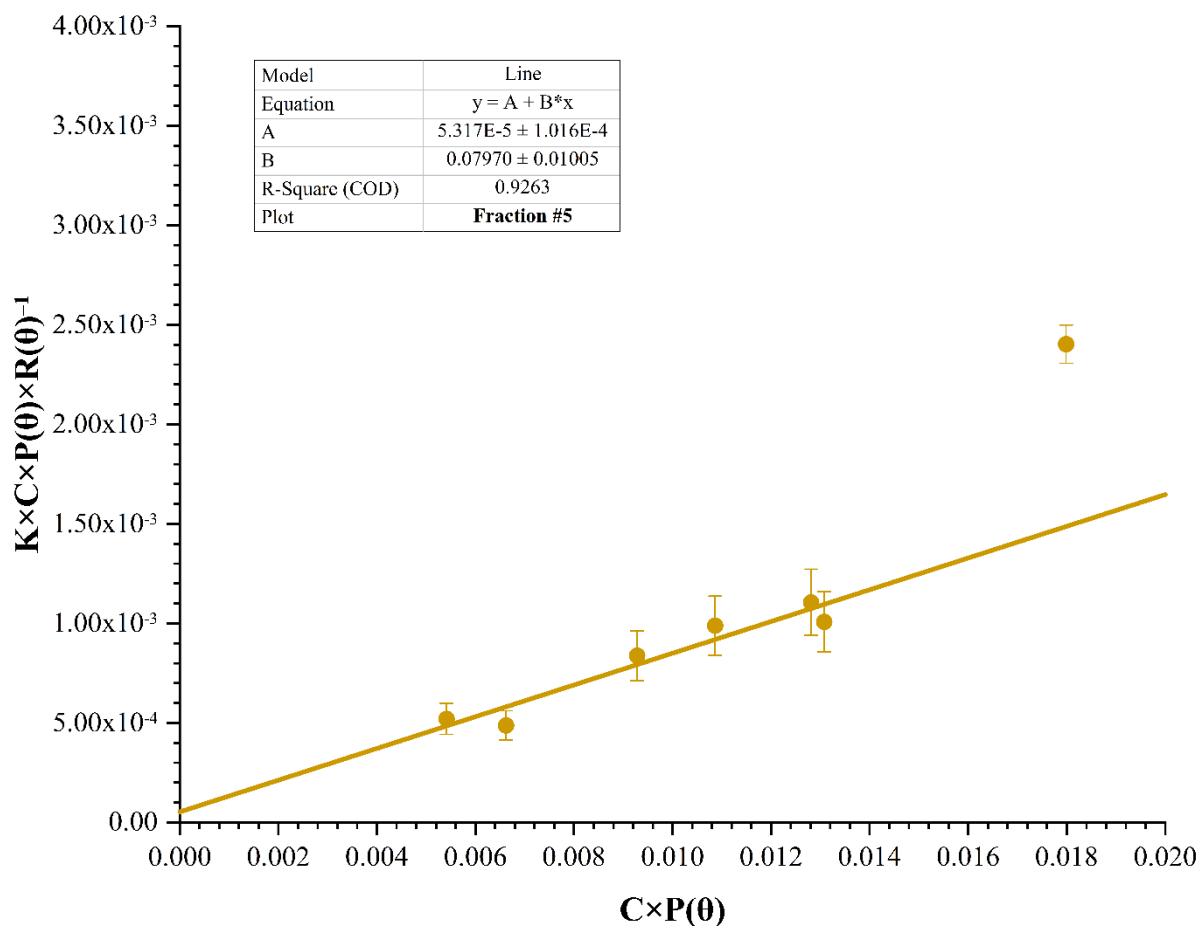


Figure S9. Dependence of specific viscosity η_{sp} on nitrocellulose mass concentration C (fraction №5).

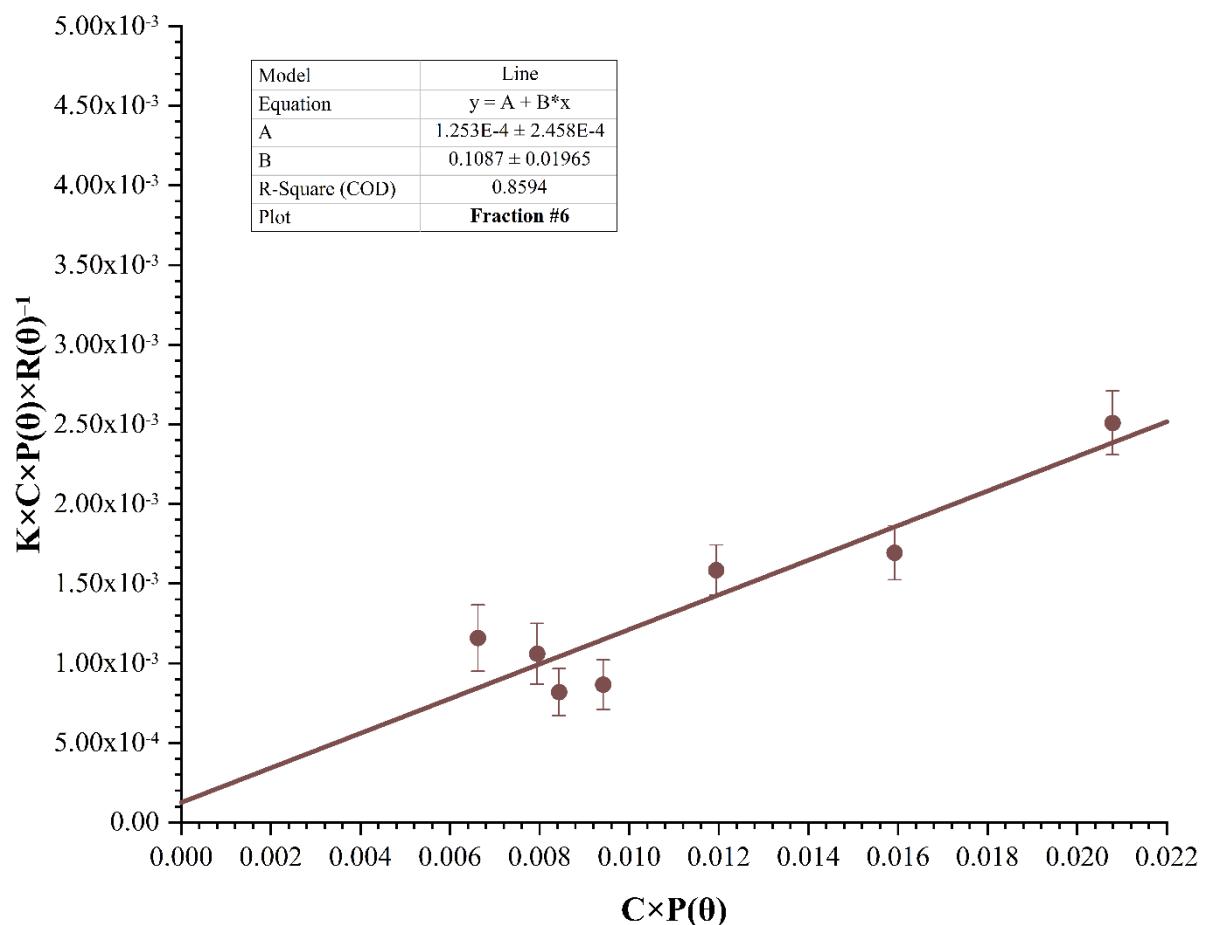


Figure S10. Dependence of specific viscosity η_{sp} on nitrocellulose mass concentration C (fraction №6).

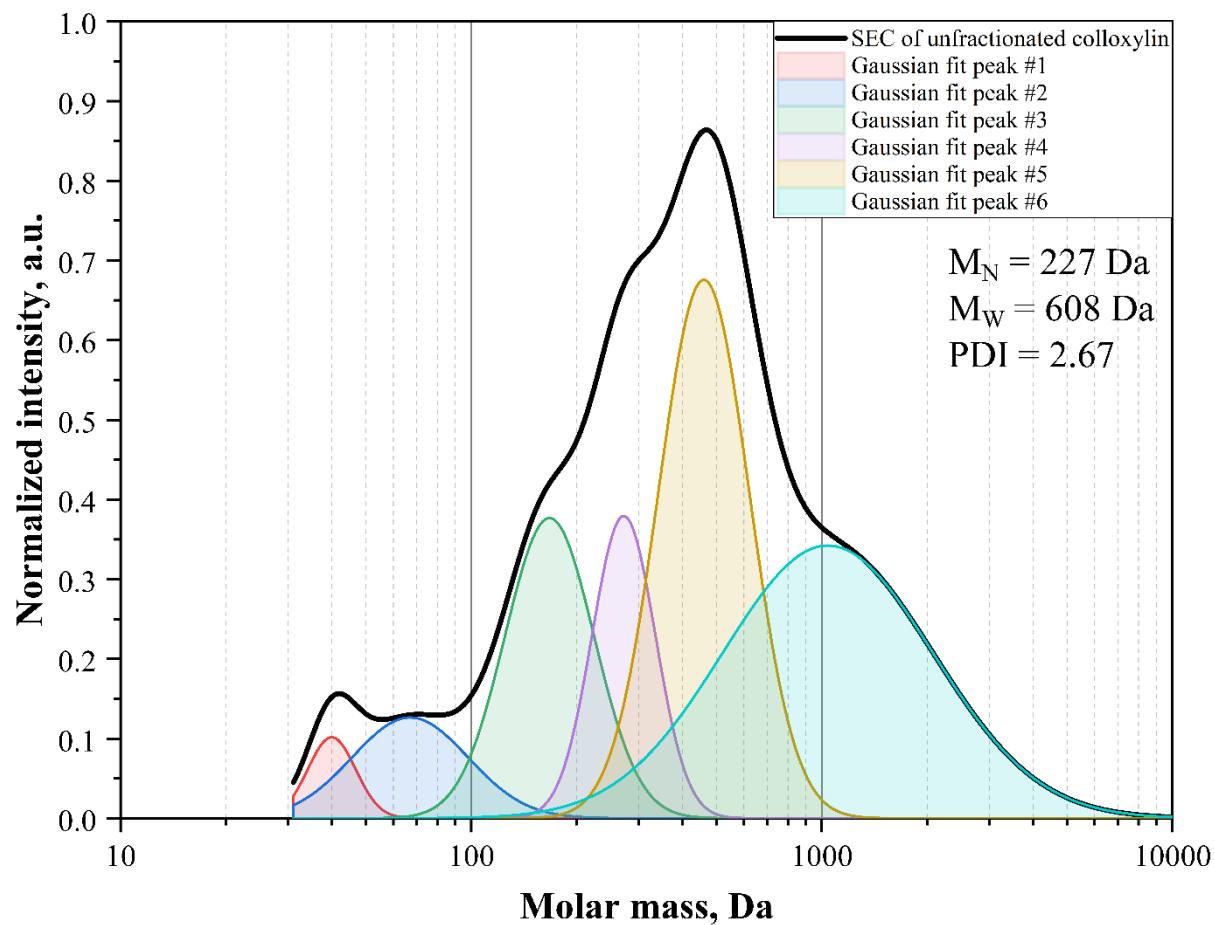


Figure S11. Size exclusion chromatography curves (black line) normalized to unit area of unfractionated colloxylin and deconvolution of data by Gaussian fitting (color curves).