

Supplementary information: Understanding the behavior of sodium polyacrylate in suspensions of silica and monovalent salts

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Spectrum of sodium polyacrylate

Figure S1 shows the spectrum of NaPA, highlighting the symmetric (1408 cm^{-1}) and antisymmetric (1563 cm^{-1}) stretching of the carboxylate functionality. The spectrum also shows displacement (1327 cm^{-1}) and deformation (1454 cm^{-1}) characteristic of CH_2 and asymmetric stretching (2945 cm^{-1}) characteristic of C-H. The broad band ($3203\text{--}3386\text{ cm}^{-1}$) corresponds to stretching vibrations of the hydroxyl group.

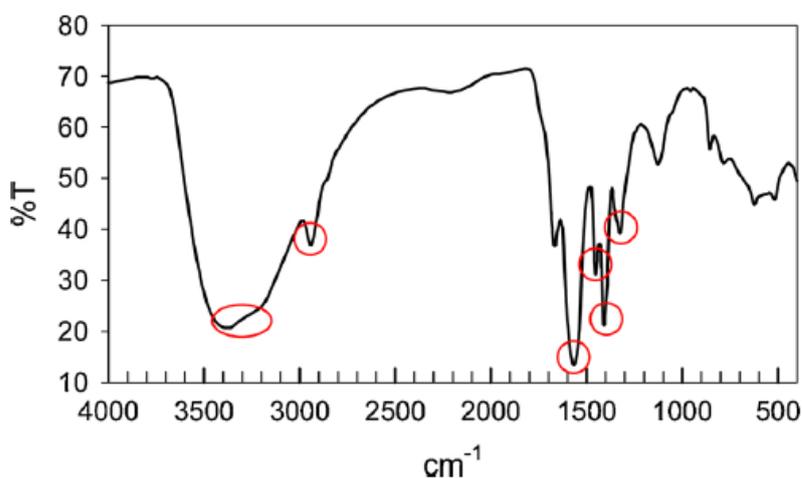


Figure S1. Fourier-transform infrared spectroscopy (FTIR) of sodium polyacrylate.