Graph referenced as "Sedimentation. Calculation of sedimentation constant. Schackman"

Contributors

Gratzer, W. B. (Walter Bruno), 1932-

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Persistent URL

https://wellcomecollection.org/works/ztwfcdks

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dimentation coefficient ... me interval and correct them inde
...ndently for temperatu... linear change in temperature. Fo
...aximum use of the da... ...ing of the resulting sedimentatio
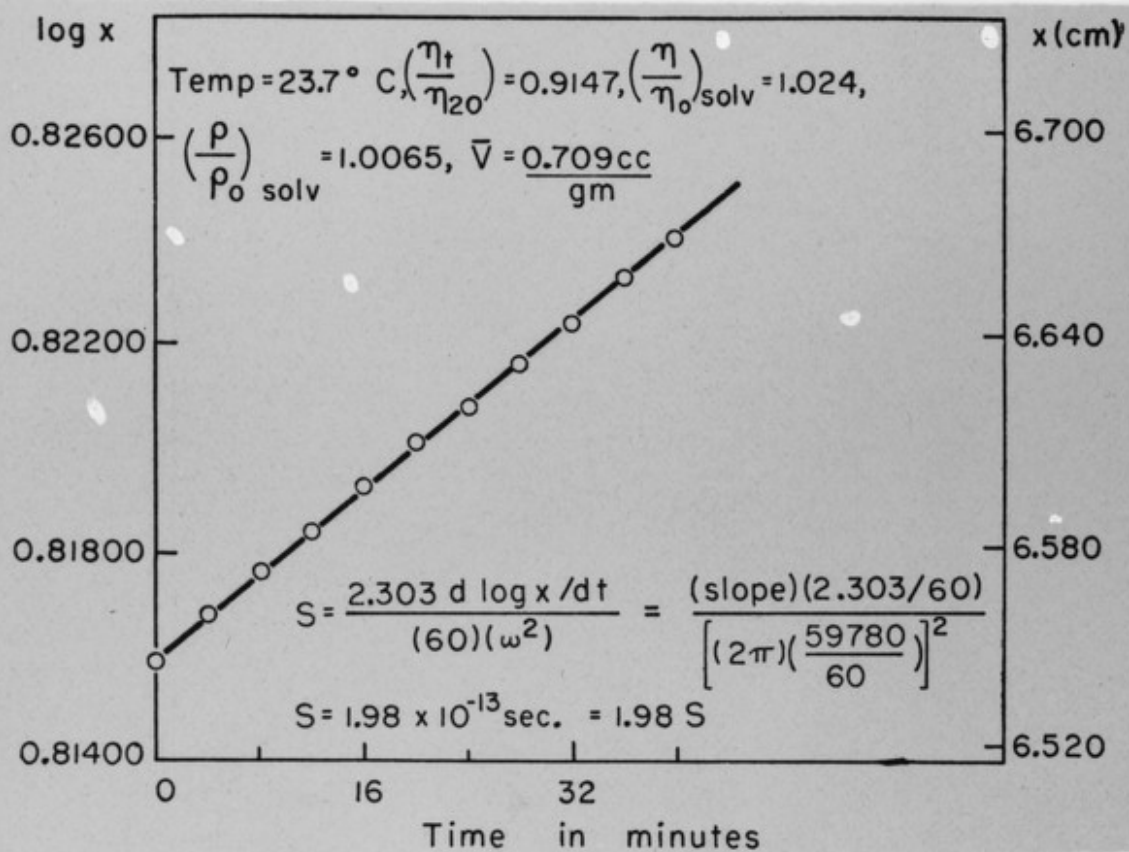...efficients should be per... ...he manner suggested by Kegeles an

$$Temp = 23.7°\ C, \left(\frac{\eta_t}{\eta_{20}}\right) = 0.9147, \left(\frac{\eta}{\eta_0}\right)_{solv} = 1.024,$$

$$\left(\frac{\rho}{\rho_0}\right)_{solv} = 1.0065,\ \bar{V} = \frac{0.709\,cc}{gm}$$

$$S = \frac{2.303\ d\log x/dt}{(60)(\omega^2)} = \frac{(slope)(2.303/60)}{\left[(2\pi)\left(\frac{59780}{60}\right)\right]^2}$$

$$S = 1.98 \times 10^{-13}\ sec. = 1.98\ S$$

Time in minutes

...dimentation ... ...reported as $s_{20,w}$, the value th
...aterial would have in a s... ...e density and viscosity of wate
...20°. Corrections of the ... ...entation coefficient, $s_{obs.}$, to th