

facial contacts,⁴² ϵ may approach the ratio of the respective surface areas of a sphere and an extended chain. In this case ϵ should be in proportion to $(\text{mol wt})^{-1/3}$ and a plot of $\log \epsilon$ vs. $\log M$ should form a straight line of slope $-1/3$. Figure 4, in which the dashed line has $-1/3$ slope, demonstrates reasonable agreement with this hypothesis. However, more evidence is needed

before any firm conclusions about the phenomenon can be made.

Acknowledgment. This work was supported by Public Health Service Research Grant GM 10851-13 from the National Institutes of Health. J. J. C. acknowledges support from the National Research Council of Canada for a postdoctoral fellowship.