

Assignment 22**Due:** *By Midnight Sunday, April 31*

In Lab 7, you determined the mass and the volume of your crosslinked and uncrosslinked P(CO) polymers before swelling. (If you didn't determine the volume, you can calculate it using $\rho = 0.91$.¹) You also determined mass values after swelling. From the mass increase, and using the density of each solvent used, you should be able to calculate fractional volume increases $V_{\text{final}}/V_{\text{initial}}$ for each experiment you ran.

On WebCT, post the six $V_{\text{final}}/V_{\text{initial}}$ values you measured (or, if any of your samples dissolved rather than swelling, post this information). In addition, note the wt% crosslinker you used in your post.

There is no need to turn in this assignment; the web post will be graded directly.

¹ Data from Degussa, which sells poly(cyclooctene) (also called polyoctenamer, sold as Vestenamer).
<http://www.degussa-hpp.com/eng/products/rubber/index.shtml> for details.