

**Kinetics of Chemical Reactions (5.68J/10.652J)**

Spring 2003

Problem Set #1

CKD = Steinfeld, J. I., J.J. Francisco, and W.L. Hase. *Chemical Kinetics and Dynamics*.

1. CKD 1.2
2. CKD 1.3
3. CKD 1.4
4. CKD 1.5
5. CKD 1.6
6. According to the information provided on some milk cartons, homogenized milk will keep for 1/3 day at 80°F, for 1/2 day at 70°F, for 1 day at 60°F, for 2 days at 50°F, for 10 days at 40°F, and for 24 days at 32°F. Calculate the **activation energy** for the process that spoils milk.