## Questions:

- 1. Recrystallization of enantionriched solid A (1.0g, 75% ee) gave crystals of A (0.5g) with 95% ee. What is the ee of compound A in the mother liquor after recrystallization?
- 2. What is the maximum theoretical yield of the diastereomeric salt (++) could be obtained when considering kinetic resolution of a  $(\pm)$ -acid A with amine (+)-B which is only 96% ee?
- 3. Is n-butane chiral? If no, why?
- 4. Draw the conformers for propioaldehyde and 1-butene? Comment on their stability