

1. Consider the structures above:

a. Which ones are carboxylic acids? (3 pts)

a, h

b. Which ones are acid anhydrides? (3 pts)

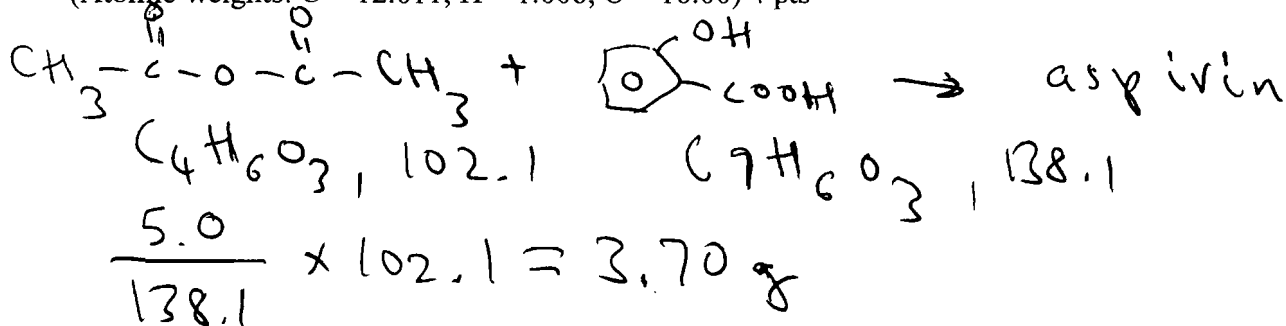
b

c. Which ones are esters? (3 pts)

c, d, f, g

2. How much acetic anhydride would it take to convert 5.0 g of salicylic acid to aspirin?

(Atomic weights: C = 12.011, H = 1.008, O = 16.00) 4 pts



3. How many moles of sulfuric acid did your reaction consume for each mole of aspirin prepared? (2 pts).

0, none