**Rubric for solvent extraction lab notebook grading**

Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_/3 Industry Standard Format followed**

\_\_\_/4 **Intro (Purpose)** Key ideas underlying solvent extraction:

0) immiscibility of two solvents required (usually polar vs non-polar)

1) need to `convert’ one of the components to aqueous soluble form (addition of NaOH) and accompanying reaction equation describing such

2) Later recovery of above by addition of conc HCL…

3) brief notion of what to expect (CH2Cl2 on bottom with acetanilide; water layer on top with benzoate)

4) some mention of `distribution’ idea (like dissolves like)

\_\_\_/**10 Observations**

\_\_\_pix of sep funnel with layers shown and labeled properly

\_\_\_Brief text on what you did (can be very short). Include any critical details of actual experiment.

(mL of added 1.5 KOH; what’s on top and bottom; appearance of two layers; what happens when 12 M HCl added; how you know to stop adding HCl; appearance of xtals after HCl)

\_\_\_/**8 Results**

\_\_% yield for benzoic acid

\_\_% yield for acetanilide

\_\_ mp range for benzoic acid

\_\_\_ mp range for acetanilide

\_\_\_ appearance (crystalline shape, color, etc)

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