CONCEPT: MIXTURE SEPARATION – EXTRACTION

Under extraction we have the separation of a _____ and a _____ .

- Removal of a component from a mixture by selective _____ in a new solvent.

_____ extraction is the most commonly used form.

- pH of the system is selectively varied by adding strong/weak base
- Depending on the pK_a of the component, its solubility in the aqueous and organic solvent will change (i.e. creation or removal of a charge by protonation/deprot.)
- Formation of an ion = increased solubility in the _____ solvent layer.
- Non-ionic form = increased solubility in the _____ solvent layer.

PRACTICE: MIXTURE SEPARATION – EXTRACTION

Whenever you do an acid-base extraction typically it is better to add a _____ base before a _____ base.

- This allows you to only isolate the _____ acid (by ↑ aq. solubility)