

Extraction – A Crash Course Review on Acid/Base

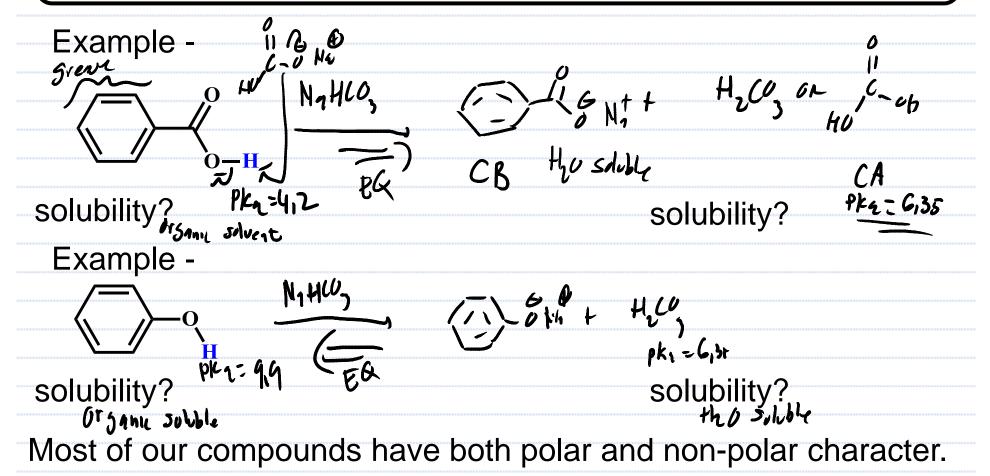
The lower the pKa of a particular proton, the hure qualic

 Molecule	pKa of Blue Proton	
	4,2	
O ₂ N O-H	3,41	
	9.9	
	16,2	

Note – the pKa's are affected by the groups red for reasons you will get to in 262.

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Recall – acid/base equilibria will always favor the side with the ACID or LONJUGATE ACD that has the HIGHER pKa!



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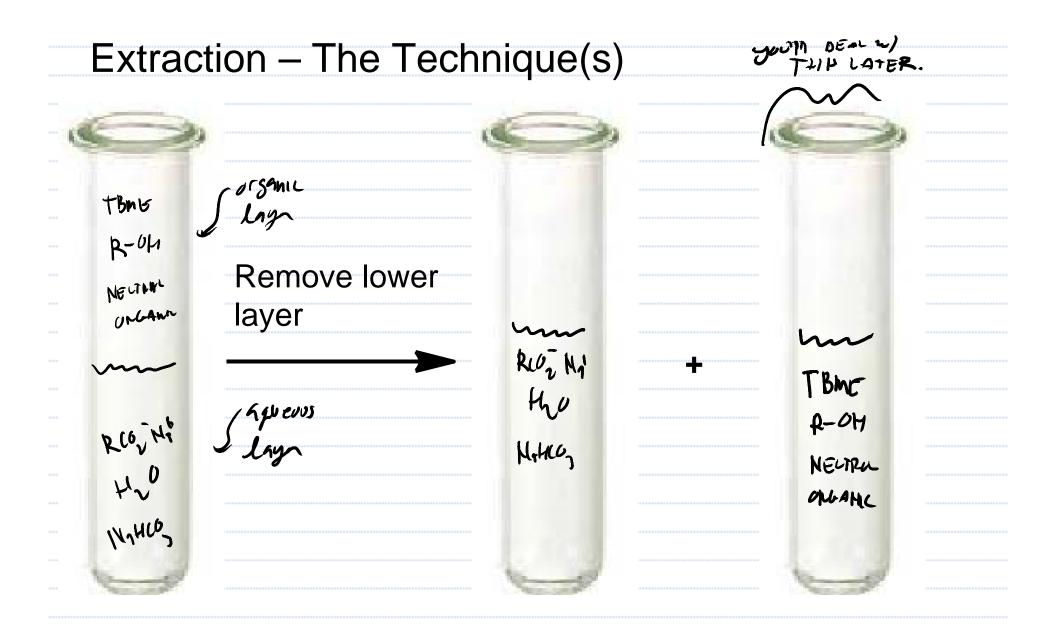
However, the Gross (NUN-PULAR) outweighs PULAR,

Extraction – The Technique(s)

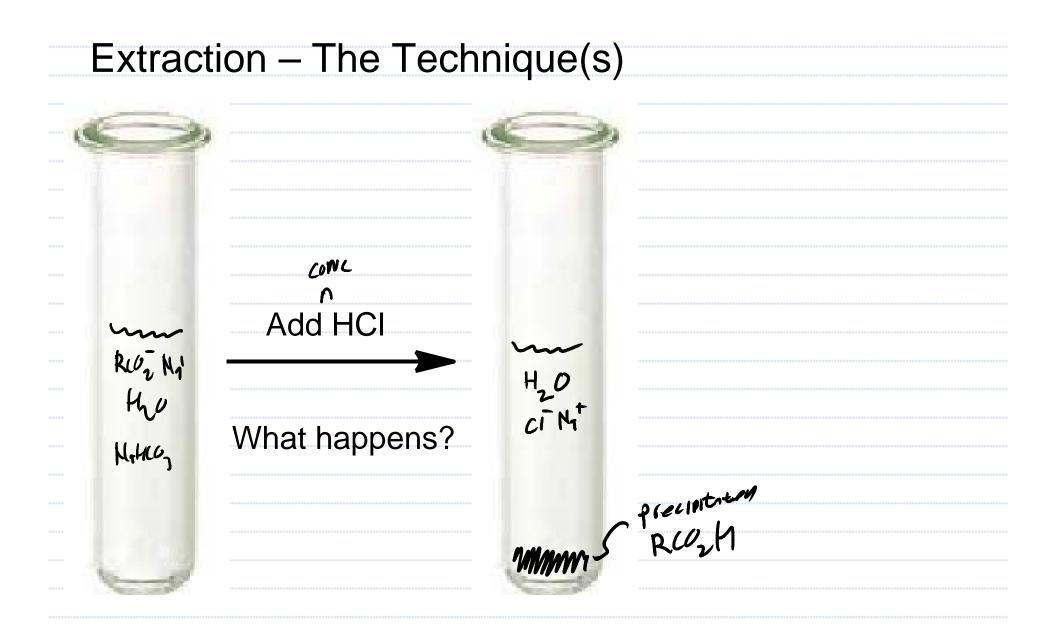
Our organic solvent:

Fairly immiscible (insoluble) with water, actually, it is 3,5% (by volume) miscibility with water. Drying agent anybody?

	Dissolve unknown in TBME	UNK North	1. Add sat'd, aq NaHCO ₃
			 Agitate Let layers separate
		UNICNOW	
		DUSILVE!	What happens?
			Which layer is which?
			which ayer is which:
		1.560	
4		· · · · · · · · · · · · · · · · · · ·	



Lower layer is more easily removed via Pasteur pipet.





Extraction – The Technique(s) Things to Watch out for and note: Confusion! Label tubes! Know your layers Effective time management Quantitative transfer

