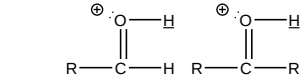
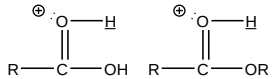
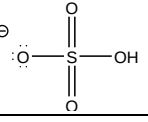
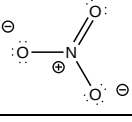
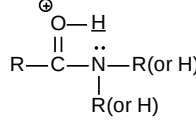
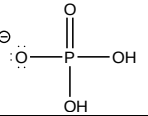
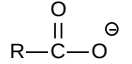
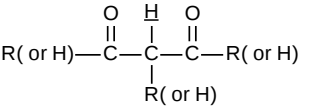
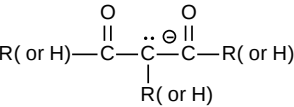
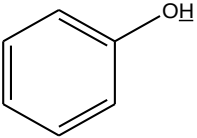
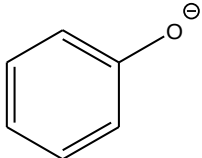
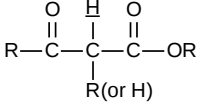
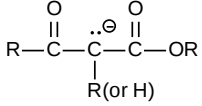
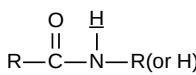
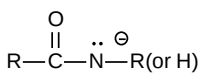
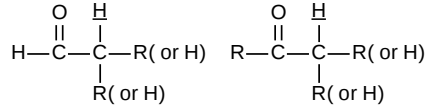
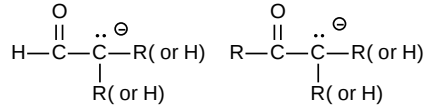
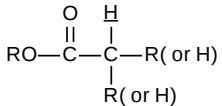
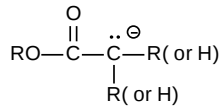
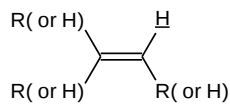
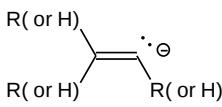
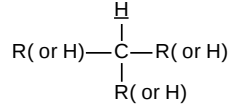


Where appropriate the most acidic hydrogen is underlined

Acid	~ pK _a	Conjugate Base
HI	-10	I [⊖]
HBr	-9	Br [⊖]
HCl	-7	Cl [⊖]
Protonated aldehydes and ketones	-7	
Protonated hydrogen sulfide, thiols and thioethers	-7	H ₂ S, RSH, RSR
Protonated acids and esters	-6	
Sulfuric acid	-5	
Protonated water, alcohols and ethers	-3	H ₂ O, ROH, ROR
Nitric acid	-1	
Protonated amides	0	
Phosphoric acid	2	
HF	3	F [⊖]
Carboxylic acid	5	
	9	
Protonated ammonia and amines	10	NH ₃ , RNH ₂ , R ₂ NH, R ₃ N
H ₂ S, RSH	10	HS [⊖] , RS [⊖]

Where appropriate the most acidic hydrogen is underlined

	10	
	11	
Water and alcohols H_2O , ROH	15	$\text{HO}^\ominus$, $\text{RO}^\ominus$
amides 	16	
α -hydrogens of aldehydes and ketones 	20	
α -hydrogens of esters 	25	
Terminal alkynes $\text{RC}\equiv\text{CH}$	25	$\text{RC}\equiv\text{C}^\ominus$
Ammonia and amines NH_3 , RNH_2 , R_2NH	35	$\text{NH}_2^\ominus$, $\text{RNH}^\ominus$, $\text{R}_2\text{N}^\ominus$
Alkenes 	45	
Alkanes 	50	