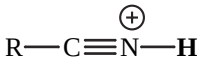
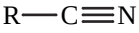
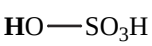
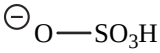
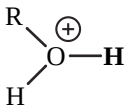
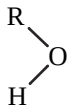
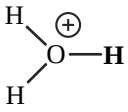
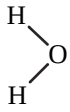
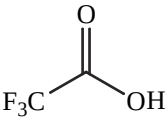
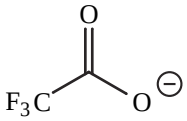
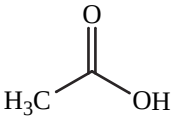
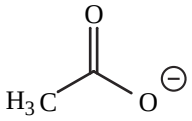
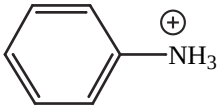
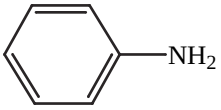
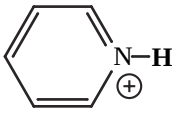
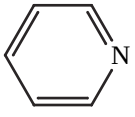
pKa VALUES OF COMMON ORGANIC AND INORGANIC ACIDS

R = alkyl group

Acid	pK_a	Conjugate Base
	–10	
HBr	–9	$Br^{\ominus}$
HCl	–7	$Cl^{\ominus}$
 (H_2SO_4)	–10	
	–2	
	–1.7	
	0	
HF	3	$F^{\ominus}$
	5	
	4–5	
	5	
H_2CO_3	6.4	$HCO_3^{\ominus}$
H_2S	7	$HS^{\ominus}$
HCN	9.2	$N{\equiv}C^{\ominus}$

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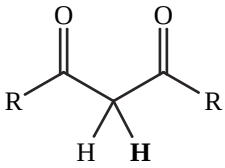
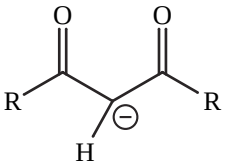
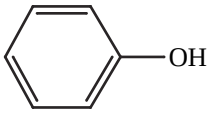
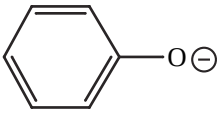
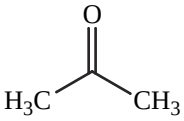
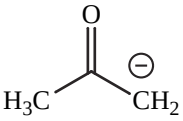
R = alkyl group

Acid	pK_a	Conjugate Base
	9	
	9.2	H_3N
	10	
RSH	11	$RS^{\ominus}$
H_2O	15.7	$HO^{\ominus}$
ROH (alcohols)	16–17	$RO^{\ominus}$
	20	
$N{\equiv}C-CH_3$	25	$N{\equiv}C-CH_2^{\ominus}$
$RC{\equiv}C\mathbf{H}$	25	$RC{\equiv}C^{\ominus}$
NH_3	38	$H_2N^{\ominus}$
$ArCH_3$	40	$ArCH_2^{\ominus}$
$R_2C{=}CH_2$	44	$R_2C{=}CH^{\ominus}$
$RC-\mathbf{H}$ (alkanes)	~ 48–53	$RC^{\ominus}$