
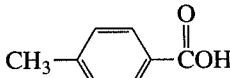
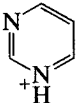
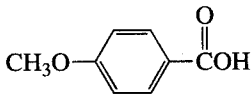
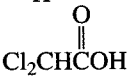
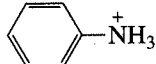

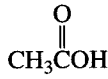
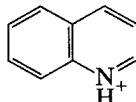
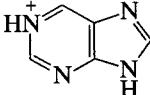
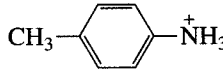
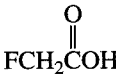
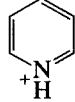
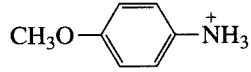
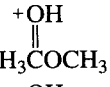
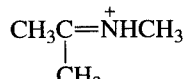

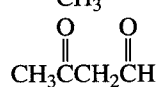
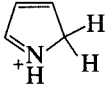
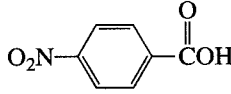
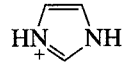

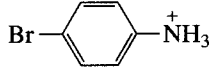
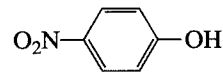
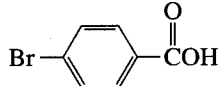
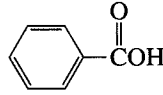
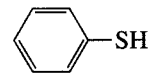
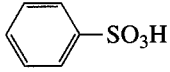



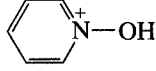

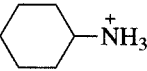

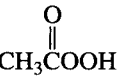
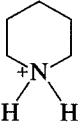
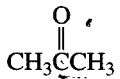
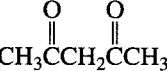
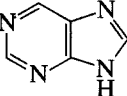
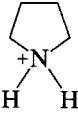
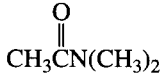
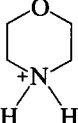
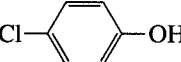

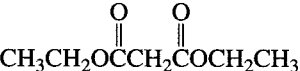
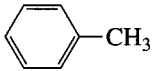
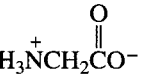
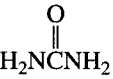

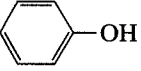
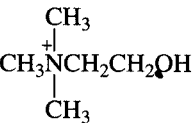
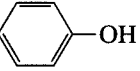


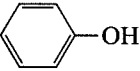
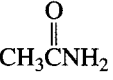
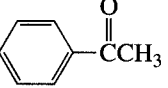
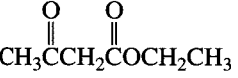



pK_a Values

Compound	pK _a	Compound	pK _a	Compound	pK _a
CH ₃ C≡NH ⁺	-10.1		1.0		4.3
HI	-10		1.0		4.5
HBr	-9		1.3		4.6
	-8	HSO ₄ ⁻	2.0		4.8
CH ₃ CH ⁺ OH	-7.3	H ₃ PO ₄	2.1		4.9
CH ₃ CCH ₃ ⁺	-7		2.5		5.1
HCl	-6.8		2.7		5.2
CH ₃ SH	-6.8	ClCH ₂ COH	2.8		5.3
	-6.5	BrCH ₂ COH	2.9		5.5
	-6.1	ICH ₂ COH	3.2		5.9
H ₂ SO ₄	-5	HF	3.2	HONH ₃ ⁺	6.0
	-3.8	HNO ₂	3.4	H ₂ CO ₃	6.4
CH ₃ CH ₂ ⁺ OCH ₂ CH ₃	-3.6		3.4		6.8
CH ₃ CH ₂ ⁺ OH	-2.4	HCOH	3.8	H ₂ S	7.0
	-2.5		3.9		7.1
H ₃ O ⁺	-1.7		4.0	H ₂ PO ₄ ⁻	7.2
HNO ₃	-1.3		4.2		7.8
CH ₃ SO ₃ H	-1.2				
	-0.60				
	0.0				
	0.2				
	0.64				
	0.79				

pK_a Values (Continued)

Compound	pK _a	Compound	pK _a	Compound	pK _a
	8.0		10.7		17
H_2NNH_3^+	8.1	$(\text{CH}_3)_2\text{NH}_2^+$	10.7	$(\text{CH}_3)_3\text{COH}$	18
	8.2		11.1		20
$\text{CH}_3\text{CH}_2\text{NO}_2$	8.6	H H	11.0	$\text{CH}_3\text{COCH}_2\text{CH}_3$	24.5
	8.9	$\text{CH}_3\text{CH}_2\text{NH}_3^+$	11.0	$\text{HC}\equiv\text{CH}$	25
	8.9		11.3	$\text{CH}_3\text{C}\equiv\text{N}$	25
$\text{HC}\equiv\text{N}$	9.1	H H	12.3		30
	9.3	HPO_4^{2-}	12.3	NH_3	36
	9.4	$\text{CF}_3\text{CH}_2\text{OH}$	12.4		36
NH_4^+	9.4		13.3	CH_3NH_2	40
$\text{HOCH}_2\text{CH}_2\text{NH}_3^+$	9.5	$\text{HC}\equiv\text{CCH}_2\text{OH}$	13.5		41
	9.8		13.7		43
	10.0		13.9	$\text{CH}_2=\text{CHCH}_3$	43
CH_3 - 	10.2		14.4	$\text{CH}_2=\text{CH}_2$	44
HCO_3^-	10.2	CH_3OH	15.5		46
CH_3NO_2	10.2	H_2O	15.7	CH_4	50
H_2N - 	10.3	$\text{CH}_3\text{CH}_2\text{OH}$	16.0	CH_3CH_3	50
$\text{CH}_3\text{CH}_2\text{SH}$	10.5		16		
$(\text{CH}_3)_3\text{NH}^+$	10.6		16.0		
	10.7		~17		
CH_3NH_3^+	10.7				