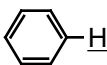
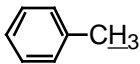
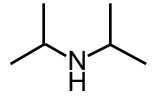
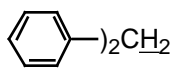
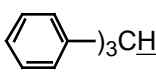
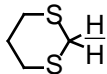
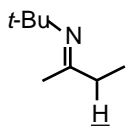
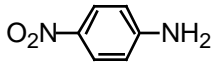

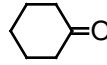
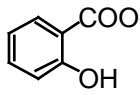
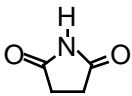
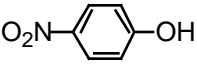
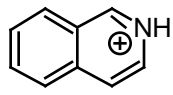
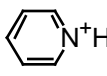
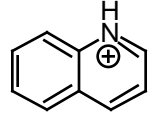
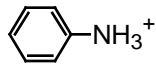
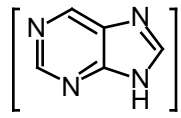
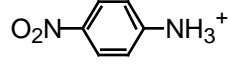

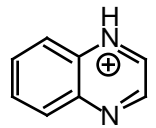
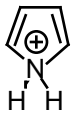
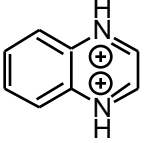


Compound	pKa
$\text{CH}_3\text{CH}_2\text{-H}$	50
$\text{CH}_2=\text{CH}_2$	44
	43
	41
	40
$\text{H}_2\text{C}=\text{CHCH}_3$	40
$\text{PhSOCH}_3$	35
$\text{MeNH}_2$	35
$\text{NH}_3$	35
	34
	31.5
	31
	30
$\text{PhNH}_2$	27
$\text{CH}_3\text{CN}$	25
$\text{CH}_3\text{CO}_2^-$	25
$\text{Cl}_3\text{CH}$	25
$\text{CH}_3\text{CO}_2\text{Et}$	25
$\text{HC C-H}$	25
$\text{CH}_3\text{CONR}_2$	25
$\text{RSO}_2\text{CH}_3$	23
$\text{Ph}_2\text{NH}_2$	23
$\text{CH}_3\text{COCH}_3$	20
	19
$\text{PhCOCH}_3$	19

Compound	pKa
$t\text{-BuOH}$	19
$\text{Ph}_3\text{P}^+\text{CH}_2\text{R}$	18-20
$\text{EtOH}$	17
	17
$\text{CH}_3\text{OH}$	16
	16
$\text{RCONHR}$	16
$\text{H}_2\text{O}$	15.7
$\text{RCH}(\text{CO}_2\text{Et})_2$	15
$\text{CH}_2(\text{CO}_2\text{Et})_2$	12.7
	13
$\text{CH}_3\text{SH}$	12
$\text{H}_2\text{O}_2$	12
$\text{CH}_2(\text{CN})_2$	11
$\text{CH}_3\text{COCH}_2\text{CO}_2\text{R}$	11
$\text{PhSO}_2\text{NH}_2$	10
$\text{PhOH}$	10
$(\text{CH}_3)_3\text{NH}^+$	10
	10
$\text{O}_2\text{NCH}_3$	10
$\text{HCN}$	9
$\text{CH}_2(\text{COCH}_3)_2$	9
$\text{NC-CH}_2\text{-CO}_2\text{R}$	9
$\text{NH}_4^+$	9
$\text{H}_3\text{BO}_3$	9
$\text{PhSH}$	8
	7
$\text{H}_2\text{CO}_3$	6.4

Compound	pKa
	5.38
	5.3
	4.78
$\text{CH}_3\text{CO}_2\text{H}$	4.7
	4.6
$\text{HCO}_2\text{H}$	3.7
$\text{CH}_2(\text{NO}_2)_2$	3.6
$\text{HNO}_2$	3.2
$\text{ClCH}_2\text{CO}_2\text{H}$	2.8
 $\text{H}^+$	2.39
$\text{H}_3\text{PO}_3$	2.2
$\text{H}_2\text{SO}_3$	1.8
$\text{HNO}_3$	1.3
$\text{Cl}_2\text{CHCO}_2\text{H}$	1.3
	1.0
	0.65
	0.56
	0.4
$\text{CF}_3\text{CO}_2\text{H}$	0.2
$\text{CH}_3\text{SO}_3\text{H}$	-1.2
$\text{H}_2\text{SO}_4$	-5.2

	-5.52
HCl	-7
HClO <sub>4</sub>	-10