

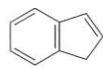
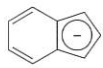
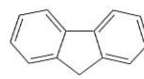



Valori di pK_a di alcuni acidi

Acido	Base	pK_a
RNO_2^+H	RNO_2	-12
ArNO_2^+H	ArNO_2	-11
HClO_4	ClO_4^-	-10
HI	I^-	-10
RCN^+H	RCN	-10
$\text{R}-\overset{\text{H}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{R}-\overset{\text{H}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-10
HBr	Br^-	-9
$\text{Ar}-\overset{\text{OR}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{Ar}-\overset{\text{OR}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-7,4
HCl	Cl^-	-7
RSH_2^+	RSH	-7
$\text{Ar}-\overset{\text{OH}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{Ar}-\overset{\text{OH}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-7
$\text{Ar}-\overset{\text{H}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{Ar}-\overset{\text{H}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-7
$\text{R}-\overset{\text{R}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{R}-\overset{\text{R}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-7
ArSO_3H	ArSO_3^-	-6,5
$\text{R}-\overset{\text{OR}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{R}-\overset{\text{OR}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-6,5
ArOH_2^+	ArOH	-6,4
$\text{R}-\overset{\text{OH}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{R}-\overset{\text{OH}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-6

Acido	Base	pK_a
$\text{Ar}-\overset{\text{R}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{Ar}-\overset{\text{R}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-6
$\text{Ar}-\overset{\text{R}}{\underset{\text{H}}{\overset{\text{+}}{\text{O}}}}$	$\text{Ar}-\text{O}-\text{R}$	-6
$\text{CH}(\text{CN})_3$	$^-\text{C}(\text{CN})_3$	-5
Ar_3NH^+	Ar_3N	-5
$\text{H}-\overset{\text{H}}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{H}-\overset{\text{H}}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-4
$\text{R}-\overset{\text{R}}{\underset{\text{H}}{\overset{\text{+}}{\text{O}}}}$	$\text{R}-\text{O}-\text{R}$	-3,5
$\text{R}_3\overset{\text{+}}{\text{C}}\text{OH}_2$	R_3COH	-2
$\text{R}_2\overset{\text{+}}{\text{C}}\text{OH}_2$	R_2CHOH	-2
$\text{RCH}_2\overset{\text{+}}{\text{O}}\text{H}_2$	RCH_2OH	-2
H_3O^+	H_2O	-1,74
$\text{Ar}-\overset{\text{NH}_2}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{Ar}-\overset{\text{NH}_2}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-1,5
HNO_3	NO_3^-	-1,4
$\text{R}-\overset{\text{NH}_2}{\underset{\text{+OH}}{\overset{\text{ }}{\text{C}}}}$	$\text{R}-\overset{\text{NH}_2}{\underset{\text{O}}{\overset{\text{ }}{\text{C}}}}$	-0,5
$\text{Ar}_2\overset{\text{+}}{\text{N}}\text{H}_2$	Ar_2NH	1
HSO_4^-	SO_4^{2-}	1,99
HF	F^-	3,17
HONO	NO_2^-	3,29
ArNH_3^+	ArNH_2	3-5

Acido	Base	pK _a
Ar ⁺ NR ₂ H	ArNR ₂	3-5
RCOOH	RCOO ⁻	4-5
HCOCH ₂ CHO	HCO ⁻ CHCHO	5
H ₂ CO ₃	HCO ₃ ⁻	6,35
H ₂ S	HS ⁻	7,00
ArSH	ArS ⁻	6-8
CH ₃ COCH ₂ COCH ₃	CH ₃ CO ⁻ CHCOCH ₃	9
HCN	CN ⁻	9,2
⁺ NH ₄	NH ₃	9,24
ArOH	ArO ⁻	8-11
RCH ₂ NO ₂	R ⁻ CHNO ₂	10
R ₃ ⁺ NH	R ₃ N	10-11
R ⁺ NH ₃	RNH ₂	10-11
HCO ₃ ⁻	CO ₃ ²⁻	10,33
RSH	RS ⁻	10-11
R ₂ ⁺ NH ₂	R ₂ NH	11
NCCH ₂ CN	NC ⁻ CHCN	11
CH ₃ COCH ₂ COOR	CH ₃ CO ⁻ CHCOOR	11
CH ₃ SO ₂ CH ₂ SO ₂ CH ₃	CH ₃ SO ₂ ⁻ CHSO ₂ CH ₃	12,5
EtOOCCH ₂ COOEt	EtOOC ⁻ CHCOOEt	13
CH ₃ OH	CH ₃ O ⁻	15,2
H ₂ O	OH ⁻	15,74
		16
RCH ₂ OH	RCH ₂ O ⁻	16

Acido	Base	pK _a
RCH ₂ CHO	R ⁻ CHCHO	16
R ₂ CHOH	R ₂ CHO ⁻	16,5
R ₃ COH	R ₃ CO ⁻	17
RCONH ₂	RCONH ⁻	17
RCOCH ₂ R	RCO ⁻ CHR	19-20
		20
		23
ROOCCH ₂ R	ROOC ⁻ CHR	24,5
RCH ₂ CN	R ⁻ CHCN	25
HC≡CH	HC≡C ⁻	25
Ar ₃ CH	Ar ₃ C ⁻	31,5
Ar ₂ CH ₂	Ar ₂ CH ⁻	33,5
H ₂	H ⁻	35
NH ₃	NH ₂ ⁻	38
PhCH ₃	PhCH ₂ ⁻	40
CH ₂ =CHCH ₃	[CH ₂ ⁻ =CH=CH ₂] ⁻	43
PhH	Ph ⁻	43
CH ₂ =CH ₂	CH ₂ =CH ⁻	44
ciclo-C ₃ H ₆	ciclo-C ₃ H ₅ ⁻	46
CH ₄	CH ₃ ⁻	48
C ₂ H ₆	C ₂ H ₅ ⁻	50
(CH ₃) ₂ CH ₂	(CH ₃) ₂ CH ⁻	51