



























	Acid	Approximate pK _a	Conjugate Base	
Strongest acid	HSbFe	<-12	SbF6	Weakest base
	н	-10	17	Increasing base strength
	H ₂ SO ₄	-9	HSO4-	
	HBr	-9	Br ⁻	
	HCI	-7	CI-	
	C ₆ H ₅ SO ₃ H	-6.5	C ₆ H ₅ SO ₃ ⁻	
	(CH ₃) ₂ OH	-3.8	(CH ₃) ₂ O	
	(CH ₃) ₂ C=OH	-2.9	(CH ₃) ₂ C==O	
	CH ₃ ÔH ₂	-2.5	CH3OH	
	H ₃ O*	-1.74	H ₂ O	
	HNO ₃	-1.4	NO	
	CF3CO2H	0.18	CF3CO2-	
	HF	3.2	F-	
	CH ₃ CO ₂ H	4.75	CH ₃ CO ₂	
	H ₂ CO ₃	6.35	HCO ₃ -	
	CH3COCH2COCH3	9.0	CH ₃ COCHCOCH ₃	
	NH4 ⁺	9.2	NH ₃	
	C ₆ H ₅ OH	9.9	C ₆ H ₅ O-	
	HCO3-	10.2	CO ₃ 2-	
	CH ₃ NH ₃ ⁺	10.6	CH ₃ NH ₂	
	H ₂ O	15.7	OH-	
	CH ₃ CH ₂ OH	16	CH3CH2O-	
	(CH ₃) ₃ COH	18	(CH ₃) ₃ CO ⁻	
	CH ₃ COCH ₃	19.2	-CH2COCH3	
	HC≡CH	25	HC=C-	
	H ₂	35	H-	
	NH ₃	38	NH2 ⁻	
	CH2==CH2	44	CH2=CH-	
Weakest acid	CH ₃ CH ₃	50	CH ₃ CH ₂ ⁻	Strongest base



















































