## Electronegativity Scales

The Pauling scale is based on the difference between the bond energy for a molecule AB and the average bond energy for the molecules AA and BB; that is, it measures the extent to which the bond AB is stronger than one might expect given the average strength of an AA bond and a BB bond. Hydrogen is assigned a Pauling electronegativity of 2.20 and all other values are referenced to this.

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V·T·E Periodic table of electronegativity using the Pauling scale																		
→ Atomic radius decreases → Ionization energy increases → Electronegativity increases →																		
Group →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
↓ Period																		
1	н																	He
	2.20																	
	Li	Be											В	С	N	0	F	Ne
2	0.98	1.57											2.04	2.55	3.04	3.44	3.98	
	Na	Mq											Al	Si	P	S	CI	Ar
3	0.93	1.31											1.61	1.90	2.19	2.58	3.16	
	0.93 K		0.	-	V	0.	14.		0.		0	7						14-
4		Ca	Sc	Ti		Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	0.82	1.00	1.36	1.54	1.63	1.66	1.55	1.83	1.88	1.91	1.90	1.65	1.81	2.01	2.18	2.55	2.96	3.00
5	Rb	Sr	Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Те		Xe
	0.82	0.95	1.22	1.33	1.6	2.16	1.9	2.2	2.28	2.20	1.93	1.69	1.78	1.96	2.05	2.1	2.66	2.60
6	Cs	Ba	*	Hf	Та	W	Re	Os	lr	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
	0.79	0.89		1.3	1.5	2.36	1.9	2.2	2.20	2.28	2.54	2.00	1.62	1.87	2.02	2.0	2.2	2.2
_	Fr	Ra	**	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	FI	Uup	Lv	Uus	Uuo
7	0.7	0.9																
			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Но	Er	Tm	Yb	Lu	
* Lanthanoids		anoids	1.1	1.12	1.13	1.14	1.13	1.17	1.2	1.2	1.1	1.22	1.23	1.24	1.25	1.1	1.27	
			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	
** Actinoids		tinoids	1.1	1.3	1.5	1.38	1.36	1.28	1.13	1.28		1.3	1.3	1.3				
1.1 1.3 1.5 1.38 1.36 1.28 1.3<																		
values are gr	ven for	the ele	ments	in their	most	commo	on and	stable	oxidati	on sta	tes.							

See also: Electronegativities of the elements (data page)

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In the Allen scale, an element's	$e_1e_{(11011e_0a_11v_11v_1s}$	8 EUHALIO IIS AVELAUE VA	

V•T•E	Electronegativity using the Allen scale																	
Group →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
↓ Period	od																	
1	H																	He
	2.300																	4.160
2	Li	Be											В	С	Ν	0	F	Ne
2	0.912	1.576											2.051	2.544	3.066	3.610	4.193	4.789
3	Na	Mg											AI	Si	Р	S	CI	Ar
	0.869	1.293											1.613	1.916	2.253	2.589	2.869	3.242
4	К	Ca	Sc	Ti	V	Cr	Mn	Fe	Со	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	0.734	1.034	1.19	1.38	1.53	1.65	1.75	1.80	1.84	1.88	1.85	1.59	1.756	1.994	2.211	2.434	2.685	2.966
5	Rb	Sr	Y	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Те	1	Xe
J	0.706	0.963	1.12	1.32	1.41	1.47	1.51	1.54	1.56	1.59	1.87	1.52	1.656	1.824	1.984	2.158	2.359	2.582
6	Cs	Ва	Lu	Hf	Та	W	Re	Os	lr	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
	0.659	0.881	1.09	1.16	1.34	1.47	1.60	1.65	1.68	1.72	1.92	1.76	1.789	1.854	2.01	2.19	2.39	2.60
7	Fr	Ra																
(	0.67	0.89																
See also: Electronegativities of the elements (data page)																		

images from Wikipedia article on electronegativity