

Chemistry



- Chemistry is involved in everything we do.
- Most people think chemistry is something done in lab, but you practice aspects of chemistry everyday. (Image credit: Shutterstock)
- You might think of chemistry only in the context of lab tests, food additives or dangerous substances, but the field of chemistry involves everything around us.
- "Everything you hear, see, smell, taste, and touch involves chemistry and chemicals (matter)," according to the American Chemical Society (ACS), a non-profit science organization for the advancement of chemistry, chartered by the U.S. Congress. "And hearing, seeing, tasting, and touching all involve intricate series of chemical reactions and interactions in your body."

skupine

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1 H vodik 1,008												11 B bor 10,81		12 C ogljik 12,01	14 N dušik 14,01	16 O kisik 16,00	19 F fluor 19,00
7 Li litij 6,941	9 Be berilij 9,012											27 Al aluminij 26,98	28 Si silicij 28,09	31 P fosfor 30,97	32 S sumpor 32,06	35 Cl klor 35,45	
23 Na natrij 22,99		24 Mg magnezij 24,31											69 Ga galij 69,72	74 Ge germanij 72,59	75 As arsen 74,92	80 Se selenij 78,96	79 Br brom 79,90
39 K kalij 39,10	40 Ca kalcij 40,08	45 Sc skandij 44,86	48 Ti titanij 47,90	51 V vanadij 50,94	52 Cr krom 52,00	55 Mn mangan 54,94	56 Fe železo 55,85	59 Co kobalt 58,93	58 Ni nikel 58,70	63 Cu baker 63,55	64 Zn cink 65,38	69 Ga galij 69,72	74 Ge germanij 72,59	75 As arsen 74,92	80 Se selenij 78,96	79 Br brom 79,90	
85 Rb rubidij 85,47	88 Sr stroncij 87,62	89 Y itrij 88,91	90 Zr cirkonij 91,22	93 Nb niobij 92,91	98 Mo molibden 95,94	98 Tc tehnecij (98)	102 Ru rutenij 101,1	103 Rh rodij 102,9	106 Pd paladij 106,4	107 Ag srebro 107,9	114 Cd kadmij 112,4	115 In indij 114,8	120 Sn kositar 118,7	121 Sb antimon 121,8	130 Te telurij 127,6	127 I jod 126,9	
133 Cs cezij 132,9	138 Ba barij 137,3	139 La lantan 138,9	180 Hf hafnij 178,5	181 Ta tantal 180,9	184 W volfram 183,9	187 Re renij 186,2	192 Os osmij 190,2	193 Ir iridij 192,2	195 Pt platina 195,1	197 Au zlato 197,0	202 Hg živa 200,6	205 Tl talij 204,4	208 Pb olovo 207,2	209 Bi bizmut 209,0	210 Po polonij 209	210 At astat 210	
223 Fr francij (223)	226 Ra radij 226,0	227 Ac aktinij 227,0	261 Rf rutherfordij (261)	262 Db dubnij (262)	106 Sg seaborgij (263)	107 Bh bohrij (262)	108 Hs hassij (265)	109 Mt meitnerij (266)	110 Ds darmstadij (271)	111 Rg rentgenij (272)	112 Cn kopernicij ()	113 Nh nihonij (277)	114 Fl flerovij ()	115 Mc moskovij ()	116 Lv livermorij ()	117 Ts tenesin ()	

Lantanoidi

Aktinoidi

140 Ce cerij 140,1	141 Pr praseodimij 140,9	142 Nd neodimij 144,2	146 Pm prometij (145)	152 Sm samarij 150,4	153 Eu europij 152,0	158 Gd gadolinij 157,3	159 Tb terbij 158,9	164 Dy disprozij 162,5	165 Ho holmij 164,9	166 Er erbij 167,3	169 Tm tulij 168,9	174 Yb iterbij 173,0	175 Lu lutecij 175,0
232 Th torij (232)	231 Pa protaktinij (231)	238 U uranij (238)	237 Np neptunij (237)	244 Pu plutonij (244)	243 Am americij (243)	247 Cm kurij (247)	247 Bk berkelij (247)	251 Cf kalifornij (251)	254 Es einsteinij (252)	257 Fm fermij (257)	258 Md mendelevij (258)	259 No nobelij (259)	260 Lr lawrencij (262)

A – nukleonski broj najčešćega izotopa
 Z – protonski broj
 A_r – relativna atomska masa

	metali		nemetali		polumetali
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- The periodic table is a table with chemical elements. We have 3 groups of elements: metals, non-metals, metalloids

Chemical Changes



Iron Rusting



Burning Wood



Metabolism



Cooking an Egg



Baking a Cake



Electroplating



Rotting Banana



Vinegar and Baking Soda Mixture

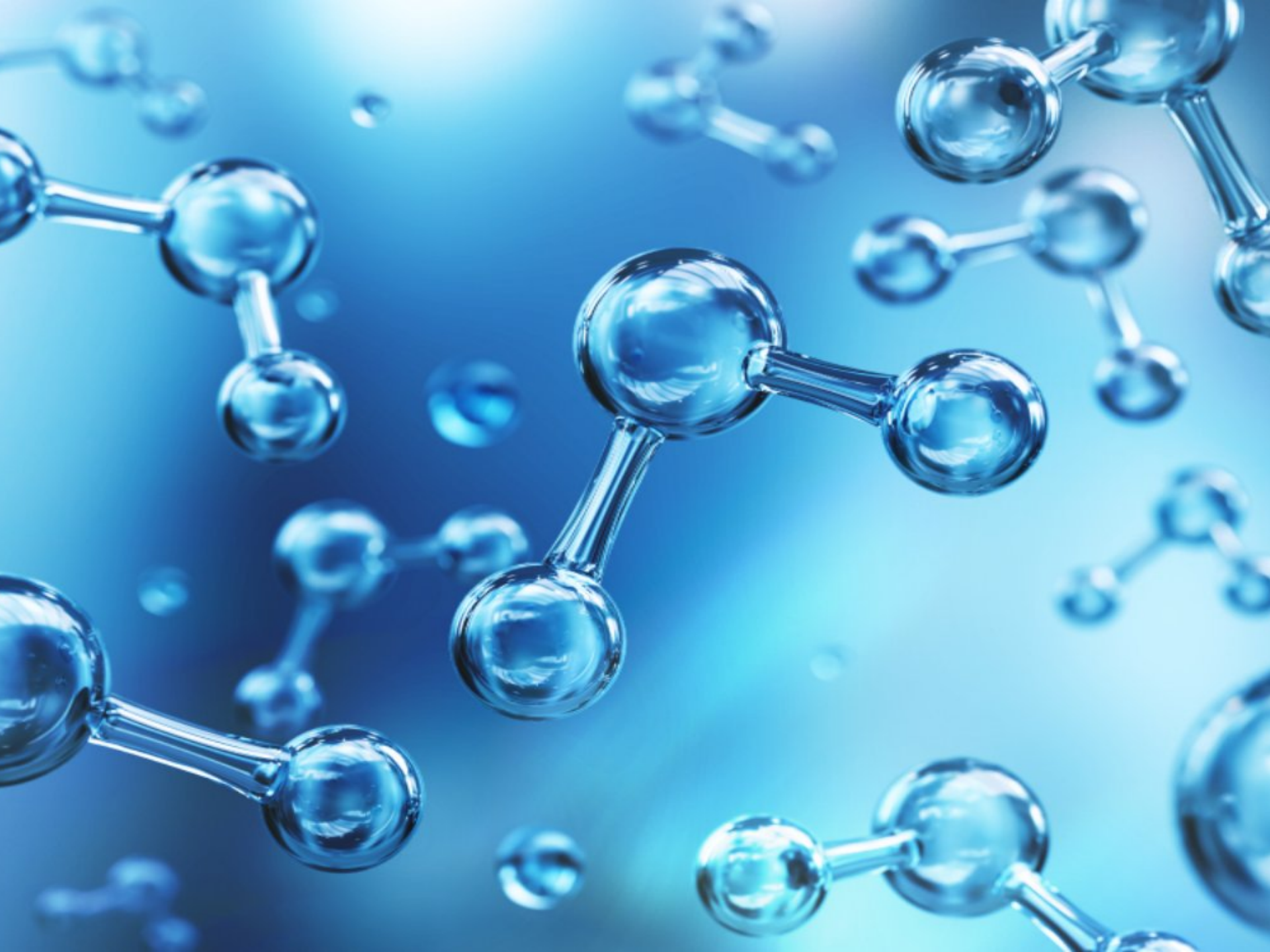


Fireworks



Chemical Battery

- Water is an inorganic, transparent, tasteless, odorless, and nearly colorless chemical substance, which is the main constituent of Earth's hydrosphere and the fluids of all known living organisms. It is vital for all known forms of life, even though it provides no calories or organic nutrients. Its chemical formula is H₂O, meaning that each of its molecules contains one oxygen and two hydrogen atoms, connected by covalent bonds.



How to Balance:

