

The eMolecules Project
ELEMENT TEMPLATE INFORMATION

Be sure that the information you provide in the template follows the format listed in the table below.

Property	Data Format/Explanation
atomic symbol	
name (alternate names as appropriate)	IUPAC name and any other names that the element might go by
picture of element	photograph of the element in its purified state
atomic composition (most stable isotope)	include the protons, electrons, and neutrons for the most stable isotope
atomic or molar mass	the atomic mass in amu or the molar mass in g/mol
state of matter at room temperature (298K)	
color/texture	color and other visible physical characteristics
melting point	°C
boiling point	°C
density	g/cm ³
metal/non-metal/metalloid	
group number (US convention)	classification on the periodic table using the US convention group labeling
atomic radius	picometers (pm)
1st ionization energy	kJ/mol
reaction for preparation	reaction for the preparation of the element written in symbolic form with conditions such as temperature and pressure if appropriate
common ions	formulas for most common ions
names and formulas of three compounds containing the element	
uses	functions that the element performs or materials generated using the element
biological importance	use of the element by the human system or other living things (when it is not used by humans but important for other organisms)
hazard information	toxicity or human physiological response

	data
historical information	name of discoverer if known, date of discovery conditions of the discovery, name derivation or assignment or other historically relevant information
additional interesting information	any information that does not fit in one of the above categories but is interesting