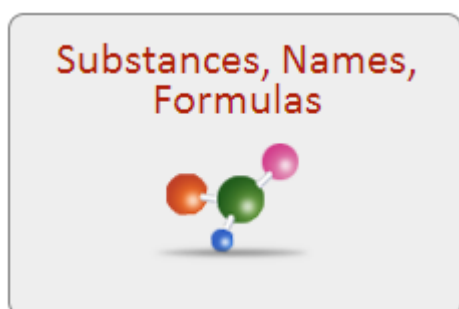


## ❖ Molecular Formula

I'd like to retrieve a list of organotin compounds within a certain size range and then find out if there are any similar tin-halide compounds.



Select the Substances, Names, and Formulas theme.

Click the Molecular Formula Link at the bottom of the page.



The Molecular Formula Query Builder will display.

Formula Builder

Molecular Formula:

Use this Formula

1A	2A	3B	4B	5B	6B	7B	8B	9B	10B	1B	2B	3A	4A	5A	6A	7A	8A	
1	H																He	
2	Li	Be										B	C	N	O	F	Ne	
3	Na	Mg										Al	Si	P	S	Cl	Ar	
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt									
			Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy		Ho	Er	Tm	Yb	Lu	
			Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf		Es	Fm	Md	No	Lr	

0

▲ more element(s) with arbitrary count

▼ Any more elements with any counts

Special groups:

Me Et Ph

Metalloids

Nonmetals

Other Nonmetals

Halogens

Noble Gases

Alkali Metals

Alkaline Earth Metals

Lanthanoids

Actinoids

Transition Metals

Post Transition Metals

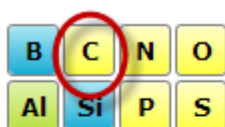
Note: its also possible to enter

- ranges or enumerations defined via variables, e.g.  $\text{Fe}_x\text{O}_y$ ,  $x=2,3$   $y=2-4$
- Arithmetic terms, e.g.  $\text{C}_n\text{H}_{2n+2}$ ,  $n=3,4,5$

Create a query to retrieve substances with 4-15 carbon atoms, 5-30 hydrogen atoms and one atom of tin:

Click the "C" in the Periodic Table. Set the range to 4-15, and click Add.

Click the "H" in the Periodic Table. Set the range to 5-30, and click Add.



Selected Element definition:

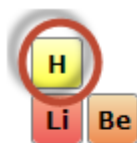
C

Charge(s)

Count(s)

4 - 15

Add



Selected Element definition:

H

Charge(s)

Count(s)

5 - 30

Add

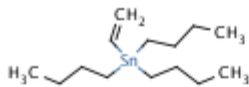

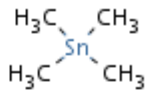

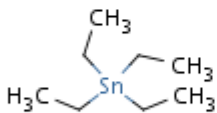

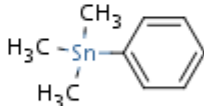

Type in Sn and click Use this Formula.

Molecular Formula: C[4-15]H[5-30]Sn

Use this Formula

Click Search Substances.

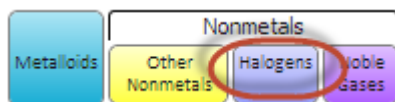
Over 1000 substances are retrieved.

<div data-bbox="292 533 320 566"> <input type="checkbox"/> </div> <div data-bbox="438 589 687 674">  </div> <div data-bbox="483 719 643 757">  </div> <div data-bbox="502 781 616 810"> <p>Synthesize</p> </div> <div data-bbox="308 835 499 965"> <p>Druglikeness Identification Physical Data (34) Spectra (11) Use/Application (1)</p> </div> <div data-bbox="585 927 719 954"> <p>Show targets</p> </div>	<div data-bbox="799 533 828 566"> <input type="checkbox"/> </div> <div data-bbox="804 568 823 595"> <p>2</p> </div> <div data-bbox="970 584 1114 674">  </div> <div data-bbox="962 712 1121 750">  </div> <div data-bbox="981 775 1094 804"> <p>Synthesize</p> </div> <div data-bbox="794 813 1078 947"> <p>Identification Physical Data (428) Spectra (227) Use/Application (4) Quantum Chemical Data (41)</p> </div>
<div data-bbox="292 1025 320 1059"> <input type="checkbox"/> </div> <div data-bbox="300 1061 316 1088"> <p>4</p> </div> <div data-bbox="454 1048 671 1160">  </div> <div data-bbox="483 1193 643 1232">  </div> <div data-bbox="502 1256 616 1285"> <p>Synthesize</p> </div> <div data-bbox="280 1301 555 1487"> <p>Druglikeness Bioactivity Identification Physical Data (429) Spectra (76) Use/Application (3) Quantum Chemical Data (3)</p> </div> <div data-bbox="574 1422 708 1449"> <p>Show targets</p> </div>	<div data-bbox="799 1025 828 1059"> <input type="checkbox"/> </div> <div data-bbox="804 1061 823 1088"> <p>5</p> </div> <div data-bbox="938 1055 1142 1160">  </div> <div data-bbox="962 1193 1121 1232">  </div> <div data-bbox="981 1256 1094 1285"> <p>Synthesize</p> </div> <div data-bbox="791 1296 1066 1456"> <p>Druglikeness Identification Physical Data (45) Spectra (54) Use/Application (1) Quantum Chemical Data (4)</p> </div>

Return to the Query page. Click the Formula Builder button.

Molecular Formula





Click the Halogens button.

Molecular Formula:  [Use this Formula](#)

Allow one additional (unspecified) element by clicking the box shown here:

☒ 1 ▲ more element(s) with arbitrary count  
☐ Any more elements with any counts

The appropriate wildcards are automatically added to the query.

Molecular Formula

Over 900 substances are retrieved.

<p><a href="#">Synthesize</a>   <a href="#">Show Details</a></p>	<p><a href="#">Synthesize</a>   <a href="#">Show Details</a></p>	<p><a href="#">Synthesize</a>   <a href="#">Show Details</a></p>
--	--	--