



การเขียนสูตรโครงสร้างเคมีโดยใช้ โปรแกรม MarvinSketch

อ.ดร.ภญ. สิริภัทร ใจจิตร
คณะเภสัชศาสตร์
มหาวิทยาลัยเชียงใหม่



MarvinSketch

MarvinSketch is an advanced chemical editor for drawing chemical structures, queries, and reactions. It has a rich (and growing) list of editing features, is chemically aware, and can call Chemaxon's structure-based calculation plugins for structures on the canvas.

Marvin's functionality

- Draw complex structures super fast from scratch
- Import and export chemical structures
- Convert file formats
- Conduct chemical calculations
- Check drawing accuracy
- Edit in Microsoft Office
- View 2D/3D structures



marvinsketch



ค้นรูป

วิดีโอ

Online

Install

Wikipedia

User Guide

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เครื่องมือ

ผลการค้นหาประมาณ 255,000 รายการ (0.22 วินาที)



chemaxon.com

<https://chemaxon.com> > marvin · [แปลหน้านี้](#) ⋮

Marvin - Chemaxon

Marvin is one of the world's most widely used and trusted chemical drawing software, utilized daily by over 100,000 scientists, researchers, start-ups and ...

[Marvin JS](#) · [Academic Program](#) · [Marvin JS User's Guide](#) · [Marvin Desktop Suite...](#)

<https://docs.chemaxon.com> > Its-europium · [แปลหน้านี้](#) ⋮

MarvinSketch Downloads | Chemaxon Docs

MarvinSketch Downloads. Download the Marvin Suite packages from here. New additions to the Marvin download page feature seamless integration into Debian and ...



scfbio-iitd.res.in

<http://www.scfbio-iitd.res.in> > utility > help · [แปลหน้านี้](#) ⋮

Introduction to MarvinSketch - SCFBio

MarvinSketch is an advanced chemical editor for drawing chemical structures, queries and reactions. It has a rich (and growing) list of editing features, ...

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MarvinSketch : Downloads - SCFBio

MarvinSketch : Downloads. Download the Marvin Suite packages from here. © ChemAxon Ltd.



abo.fi

<http://web.abo.fi> > sketch > sketch-chem · [แปลหน้านี้](#) ⋮

MarvinSketch Help

MarvinSketch allows you to specify R-groups within your molecule. These R-groups can be very

MarvinSketch Desktop Installation

Marvin Desktop Suite Installation and Upgrade

[Supported Platforms](#)

Windows (Windows 10 64-bit or later)

macOS (macOS 10.15 or later)

Debian-based distributions

RedHat-based distributions

[Minimum System Requirements](#)

1 GHz processor

1 GB RAM (1.5 GB of RAM for Windows)

200 MB available hard disk space

[Recommended System Specification](#)

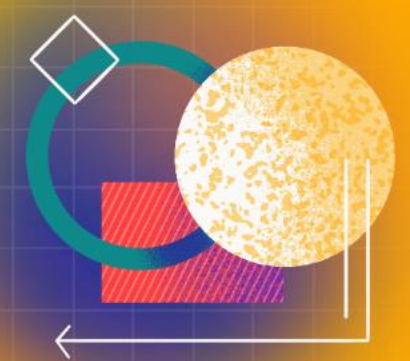
2 GHz processor, 2 or more physical cores

2 GB of RAM

200 MB available hard disk space

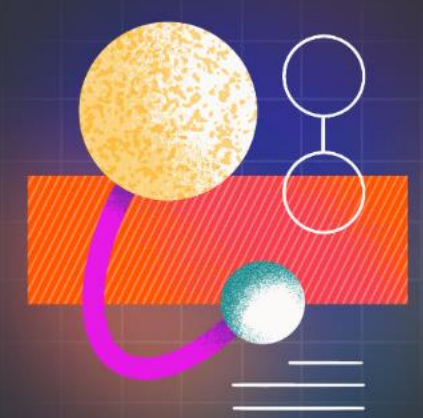
[Java](#)

Java 11 is needed. Marvin installers are bundled with **AdoptOpenJDK11**.




MarvinSketch from your Desktop

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Marvin JS

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! Please enter a username

Password

! Please enter a password

☐ Remember me

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Forgot password?

2 [Register](#)

[Help](#)

First name

Siripat

Last name

Chaichit

Email

siripat.chaichit@gmail.com

Phone (optional)

Institution

Chiang Mai University

Position

Teacher

Country

Thailand

State

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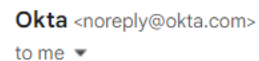
REGISTER



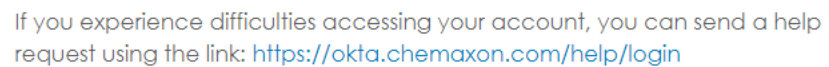
You have successfully created your account.

An activation email has been sent to **siripat.chaichit@gmail.com**.

Please check your inbox and follow the instructions in the email.

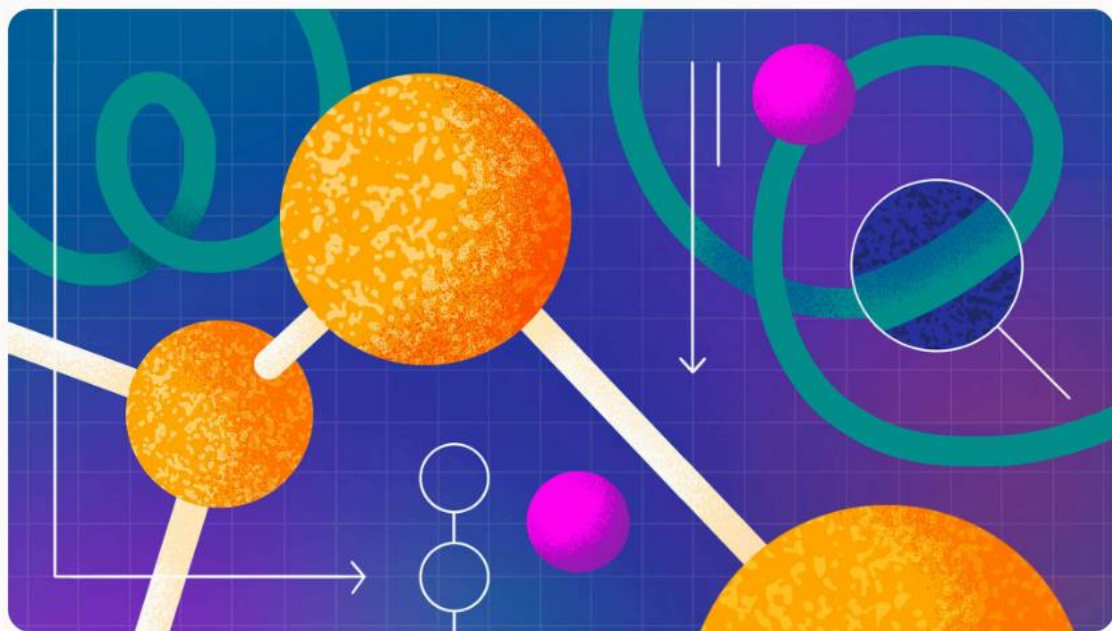
 

12:33 PM (1 minute ago) ☆ ↩ ⋮





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Marvin 23.8



CLI with deb

CLI with rpm

CLI with gradle

Windows

Includes Marvin desktop applications, API, examples, documentation.

Marvin .exe (64 bit)



Long Term Support (LTS)

- [LTS - Iodine](#)
- [LTS - Krypton](#)
- [LTS - Lithium](#)
- [LTS - Mercury](#)

Read more about [Long Term Support](#) releases.

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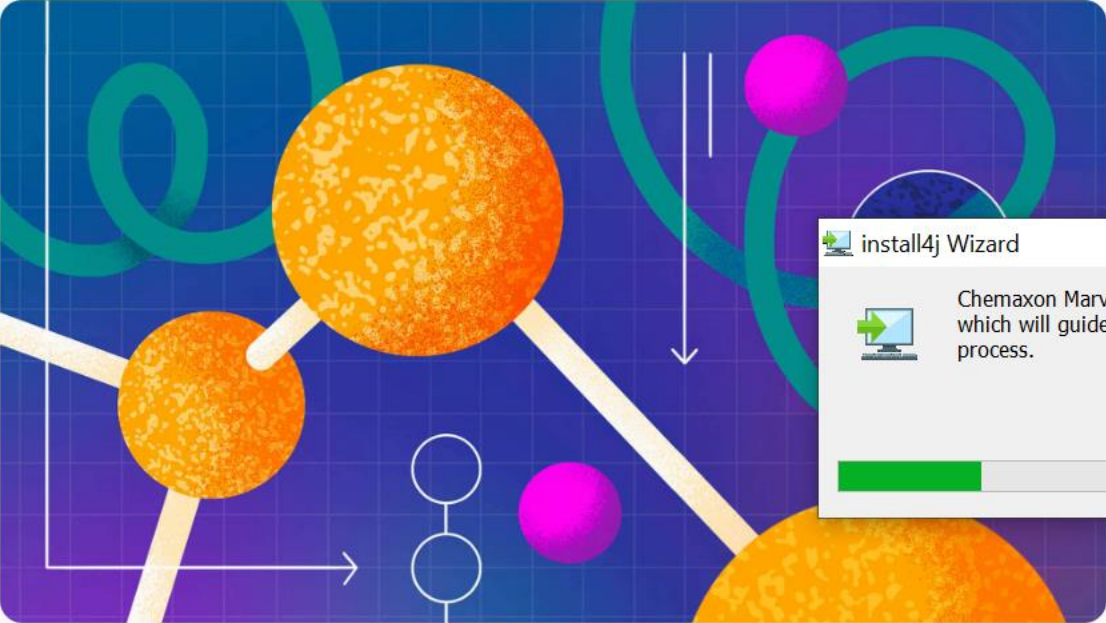
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CLI with deb

CLI with rpm

CLI with gradle

Applications, API, examples, documentation.

install4j Wizard

 Chemaxon Marvin Suite is preparing the install4j Wizard which will guide you through the rest of the setup process.

Cancel

Long Term Support (LTS)

- LTS - Iodine
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- LTS - Lithium
- LTS - Mercury

Read more about Long Term Support releases.

11

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Marvin Suite

Chemaxon

Welcome to the Chemaxon Marvin Suite Setup Wizard

This will install Chemaxon Marvin Suite on your computer. The wizard will lead you step by step through the installation.

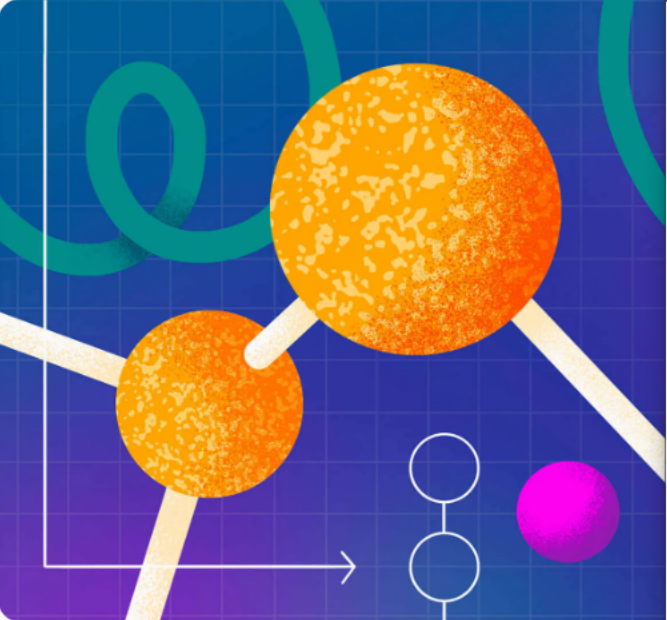
Click Next to continue, or Cancel to exit Setup.

☒ I accept the terms and conditions defined in EULA

[Show EULA](#)

Next >

Cancel



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- LTS - Krypton
- LTS - Lithium
- LTS - Mercury

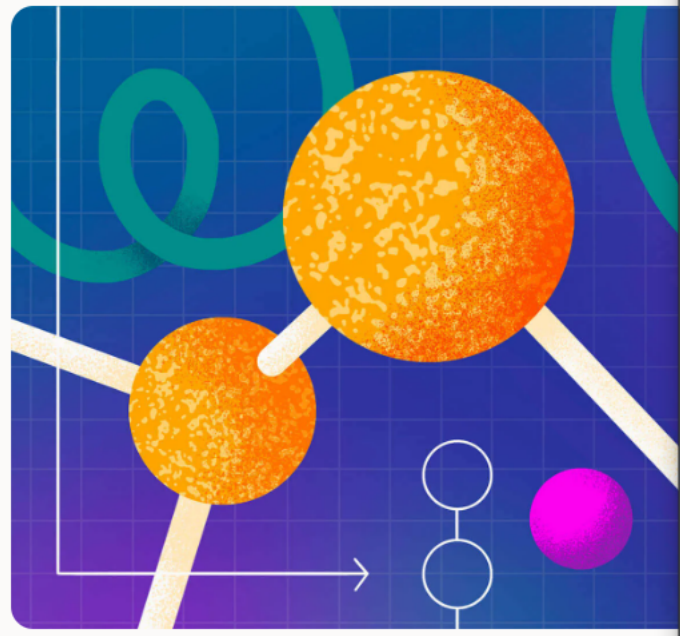
Read more about [Long Term Support](#) releases.

CLI with rpm

CLI with gradle

API, examples, documentation.

12



Long Term Support (LTS)

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Setup - Chemaxon Marvin Suite 23.8.0

Select Installation Type

Which type of installation should be performed?

Select the type of installation that you want to perform. Click Next when you are ready to continue.

☒ **Standard installation**
All components required for regular usage are installed. Some rarely used components are not installed in order to save disk space.

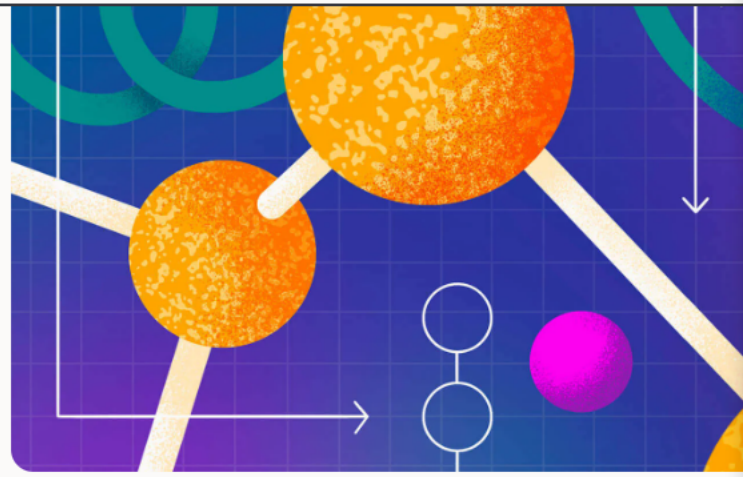
☐ **Custom installation**
In the next step you can customize the components that should be installed. The initial selection is set to the standard installation.

install4j

Next > Cancel

CLI with rpm CLI with gradle

API, examples, documentation.



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Setup - Chemaxon Marvin Suite 23.8.0

Installing

Please wait while Setup installs Chemaxon Marvin Suite on your computer.

Extracting files ...

lib\jacob-native-x86-1.17.jar

install4j

Cancel

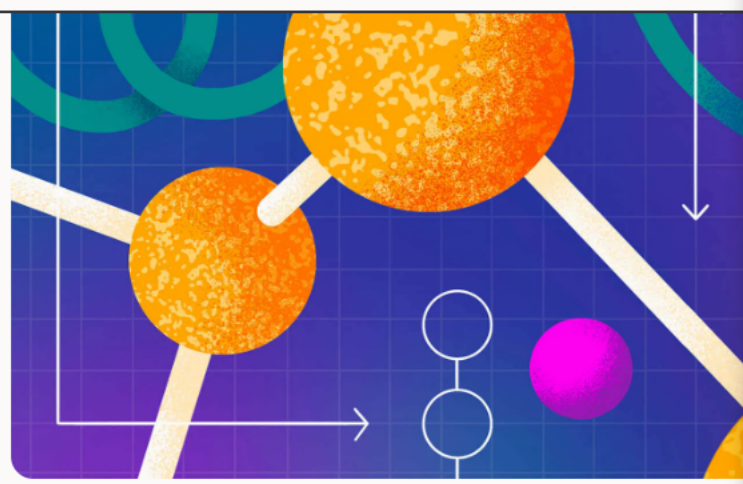
[rpm](#) [CLI with gradle](#)

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Setup - Chemaxon Marvin Suite 23.8.0



Completing the Chemaxon Marvin Suite Setup Wizard

Setup has finished installing Chemaxon Marvin Suite on your computer. The application may be launched by selecting the installed icons.

Click Finish to exit Setup.

[Finish](#)

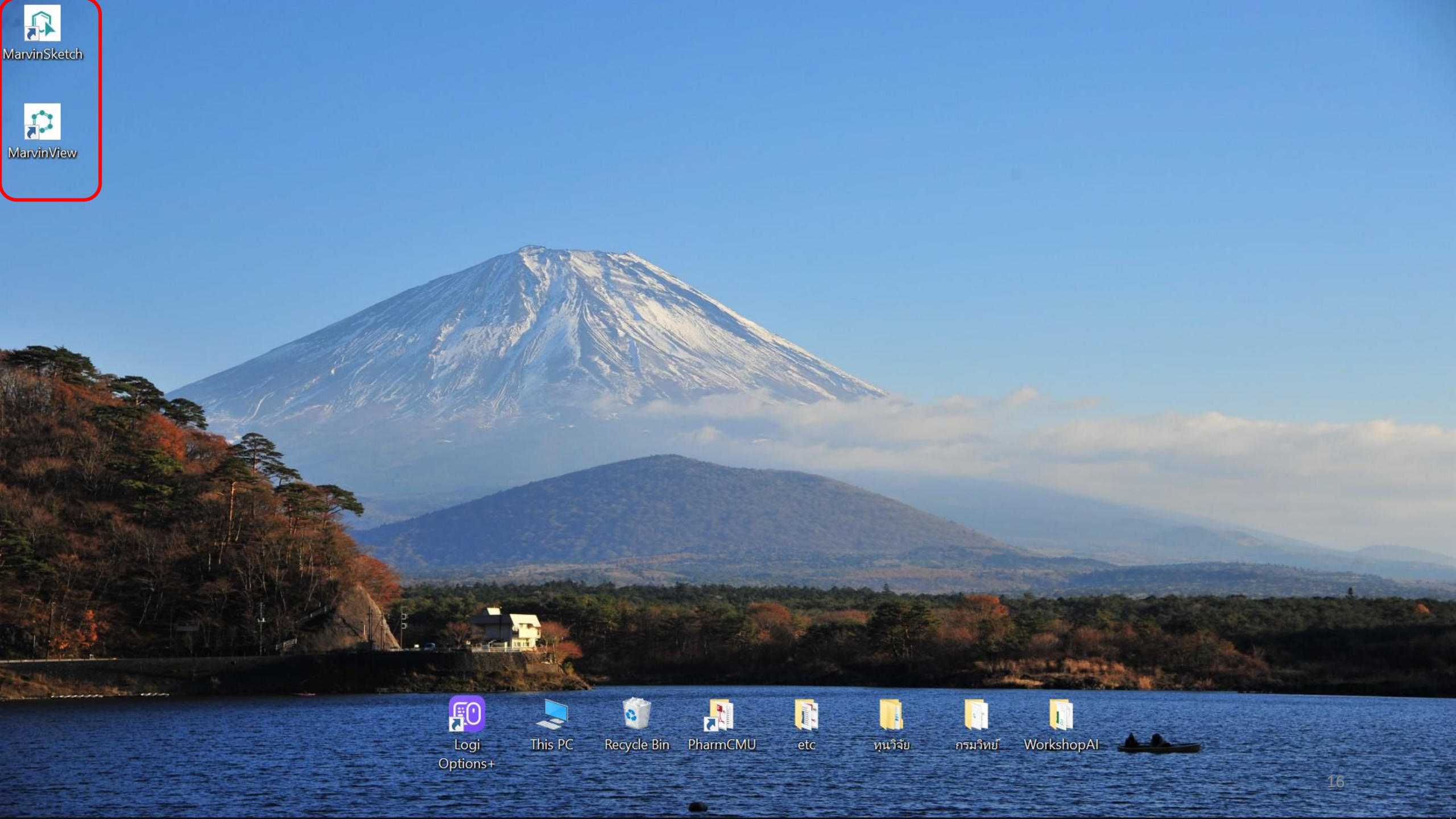
[rpm](#) [CLI with gradle](#)

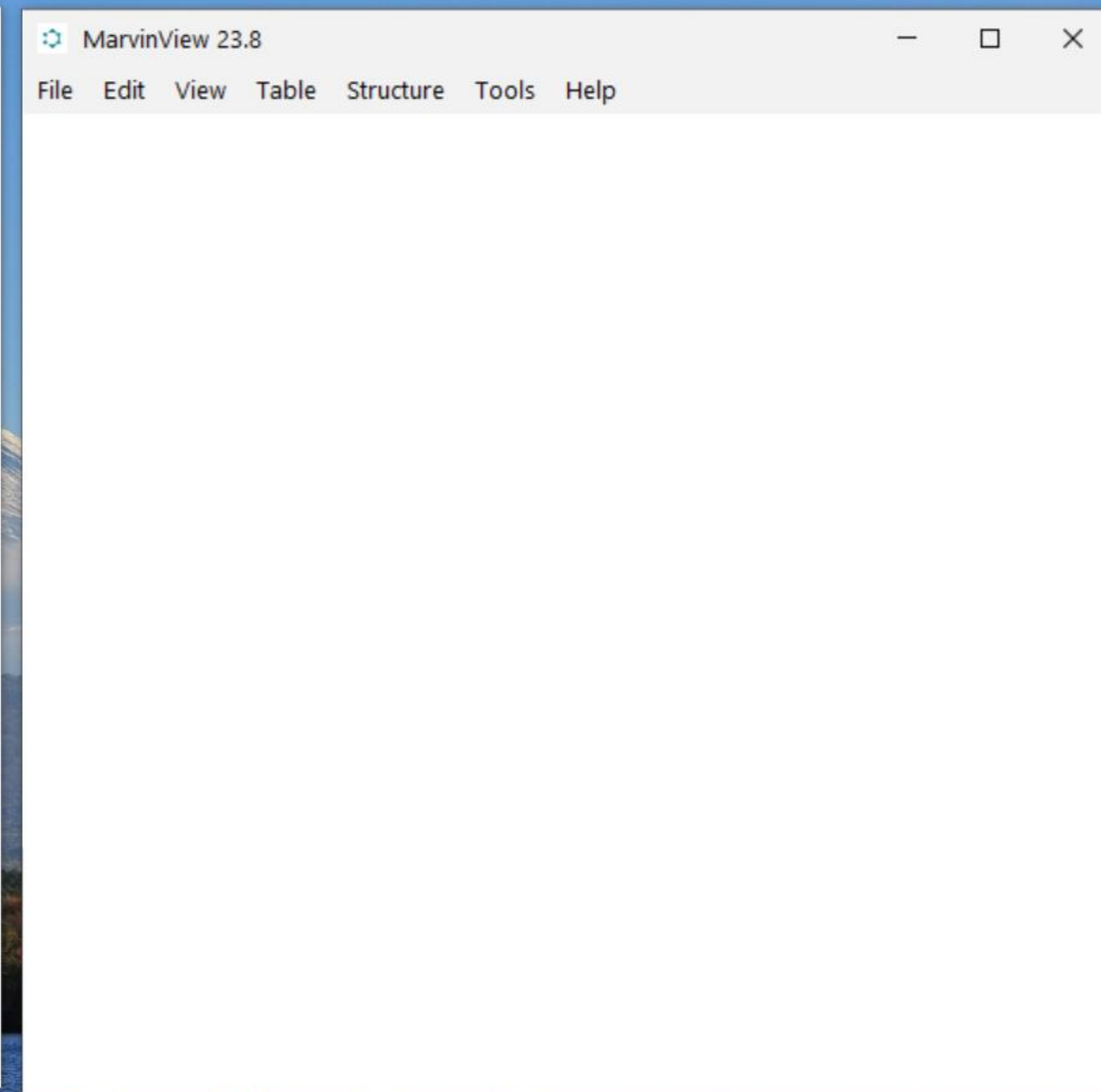
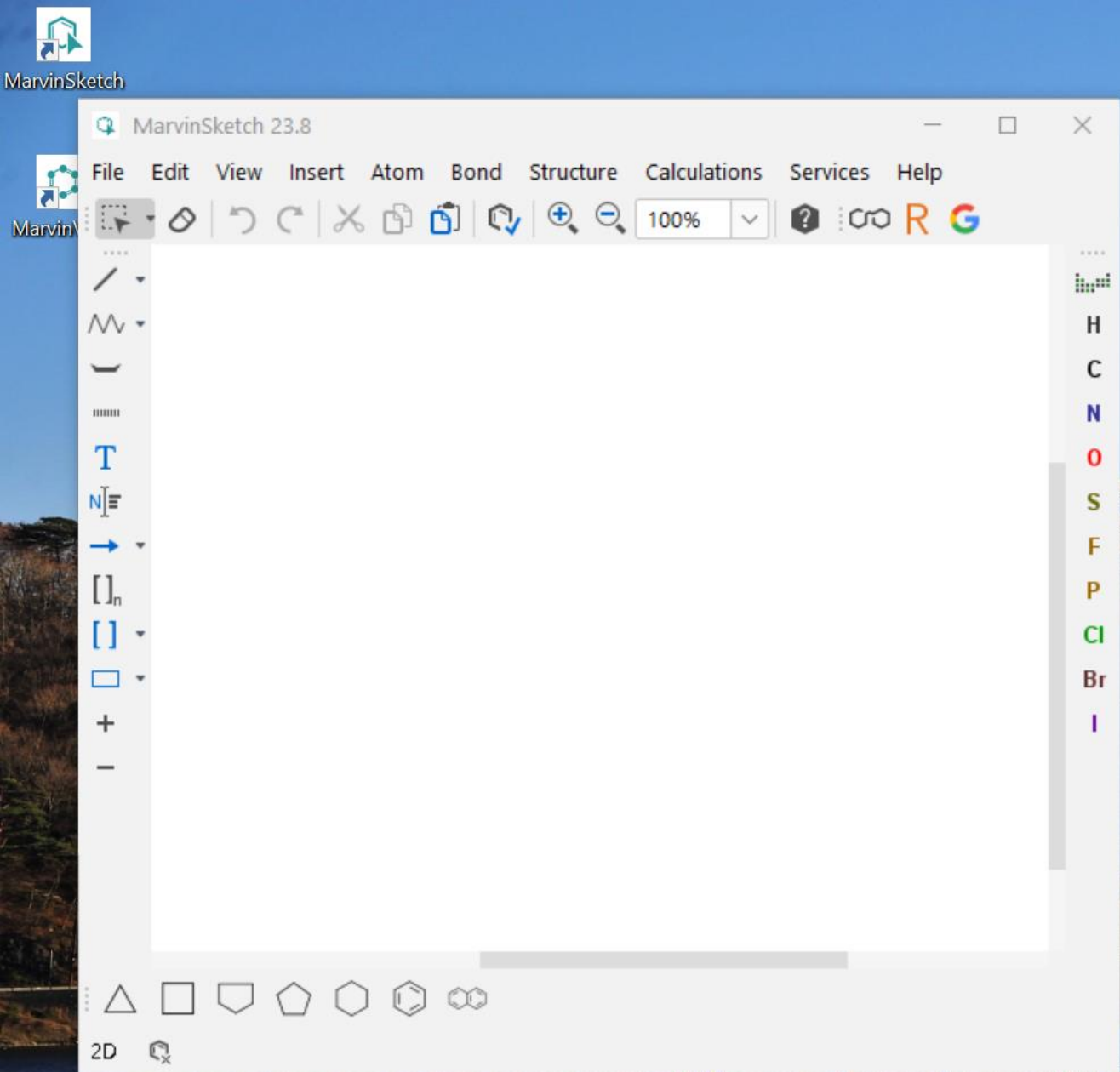
[examples, documentation.](#)

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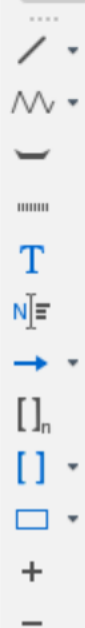

MarvinView







- Help Contents...
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For drawing structures, the free desktop version is available for personal use only. This license needs to be renewed every 2 months.

☒ I confirm that I am **NOT affiliated with any corporate entities**, and I understand that Chemaxon will collect data on my usage of Marvin as stated in the [Privacy Policy](#).

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19

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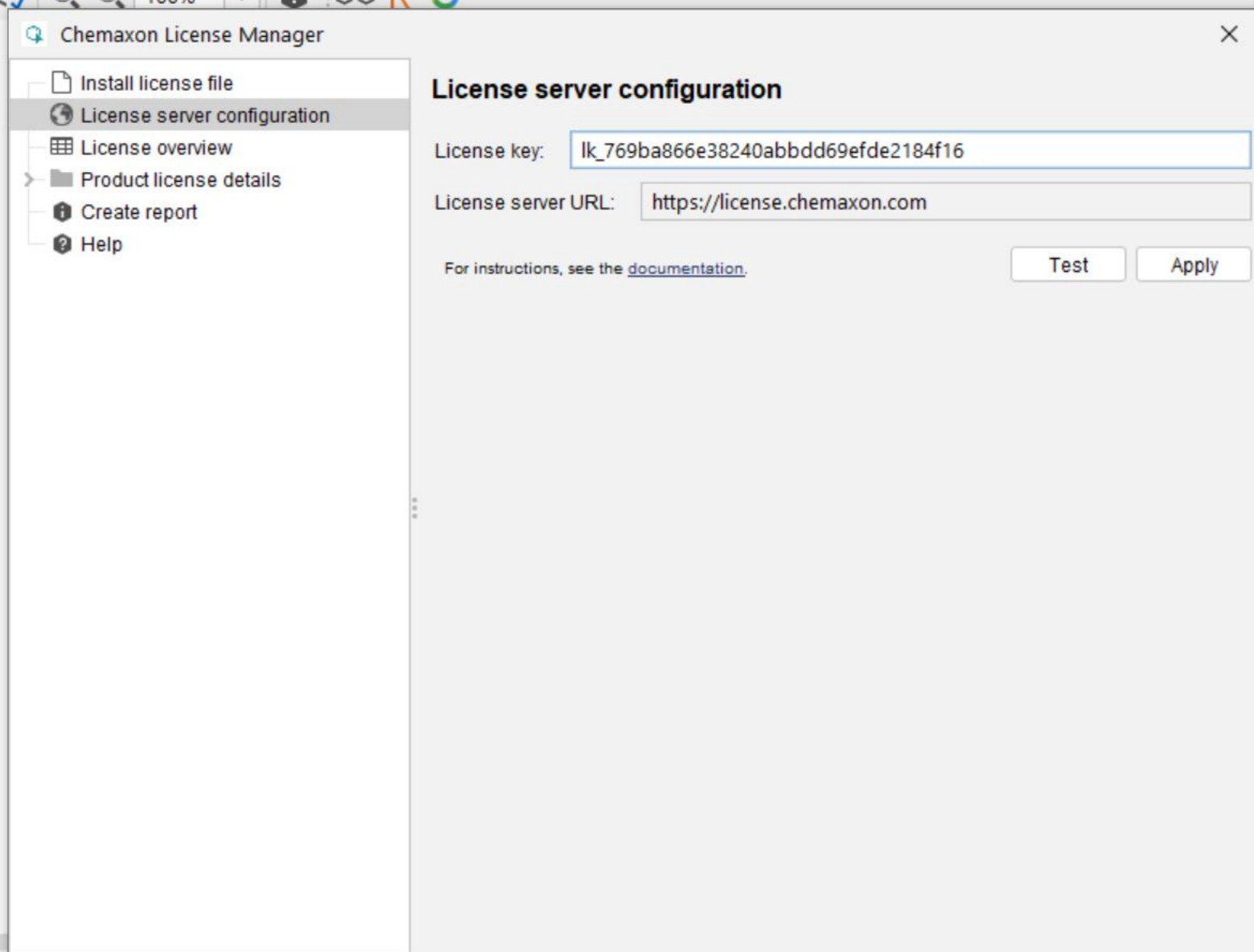
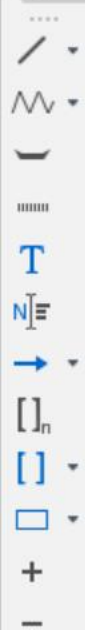
20

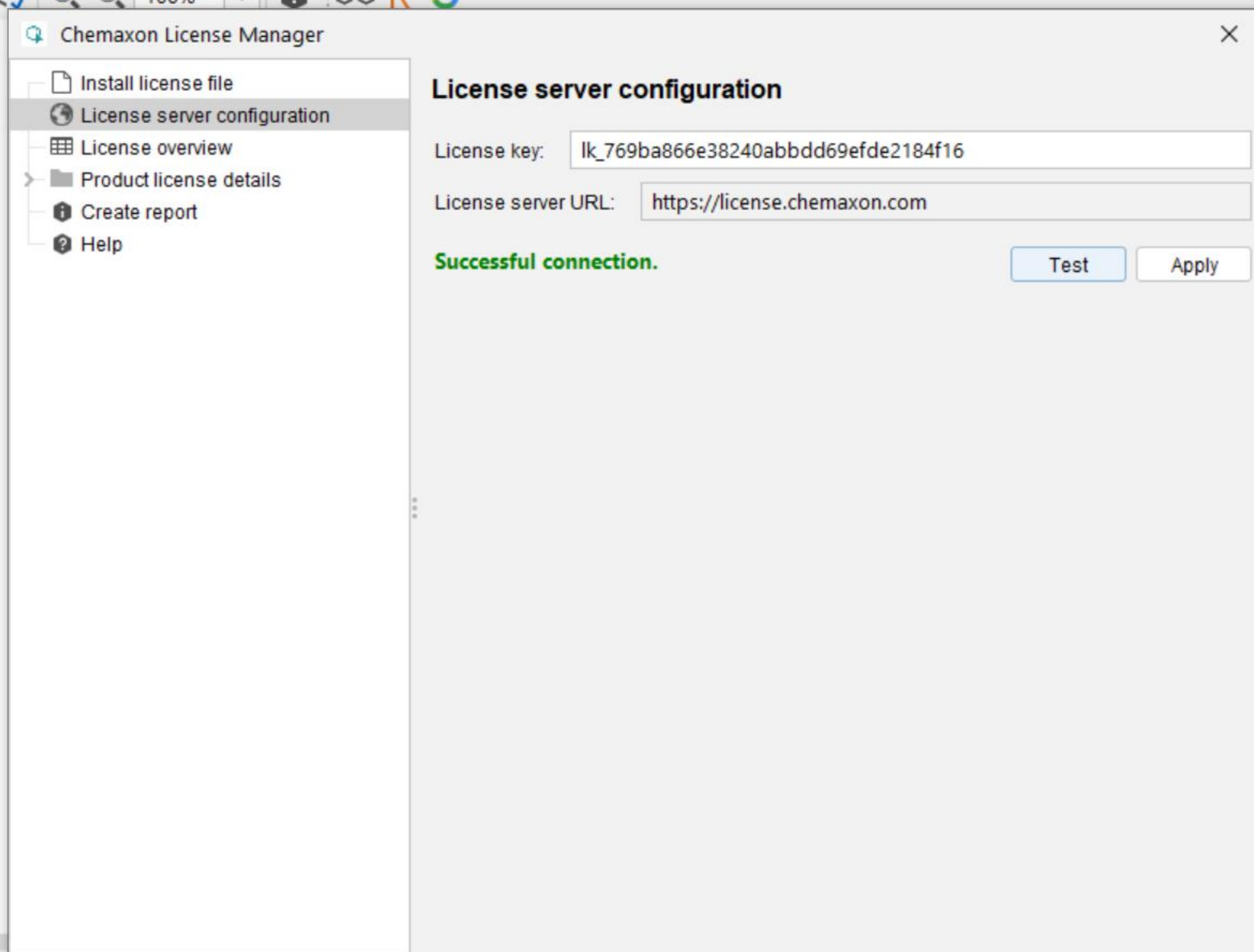
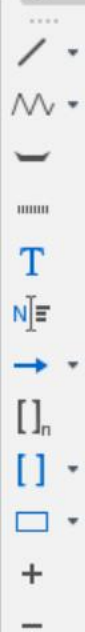
https://accounts.chemaxon.com/licenses

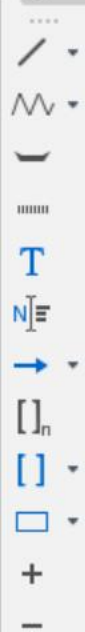
Your license key

lk_769ba866e38240abdd69efde2184f16

COPY KEY







Chemaxon License Manager

Install license file

License server configuration

License overview

Product license details

Create report

Help

License server configuration

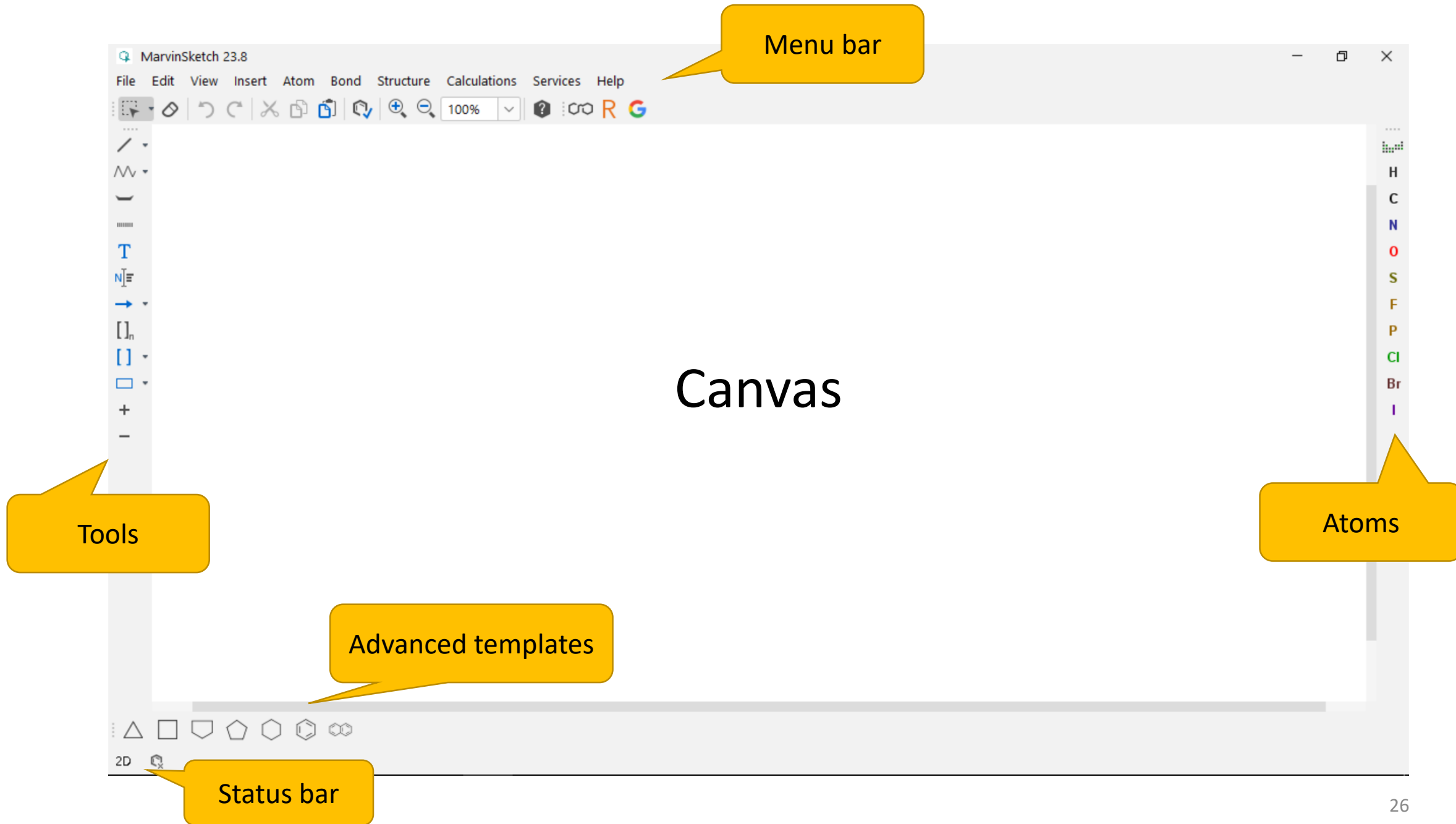
License key: lk_769ba866e38240abbdd69efde2184f16

License server URL: https://license.chemaxon.com

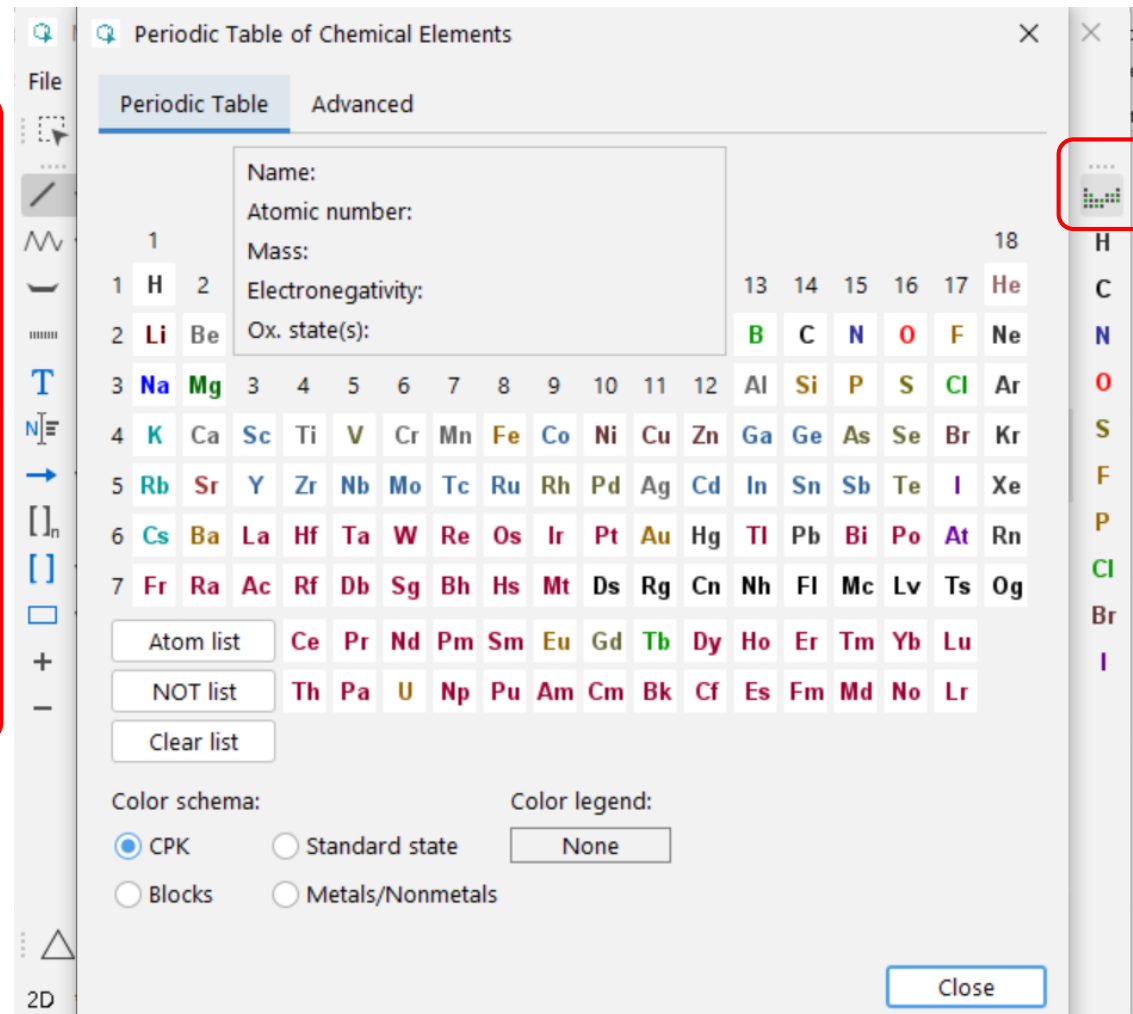
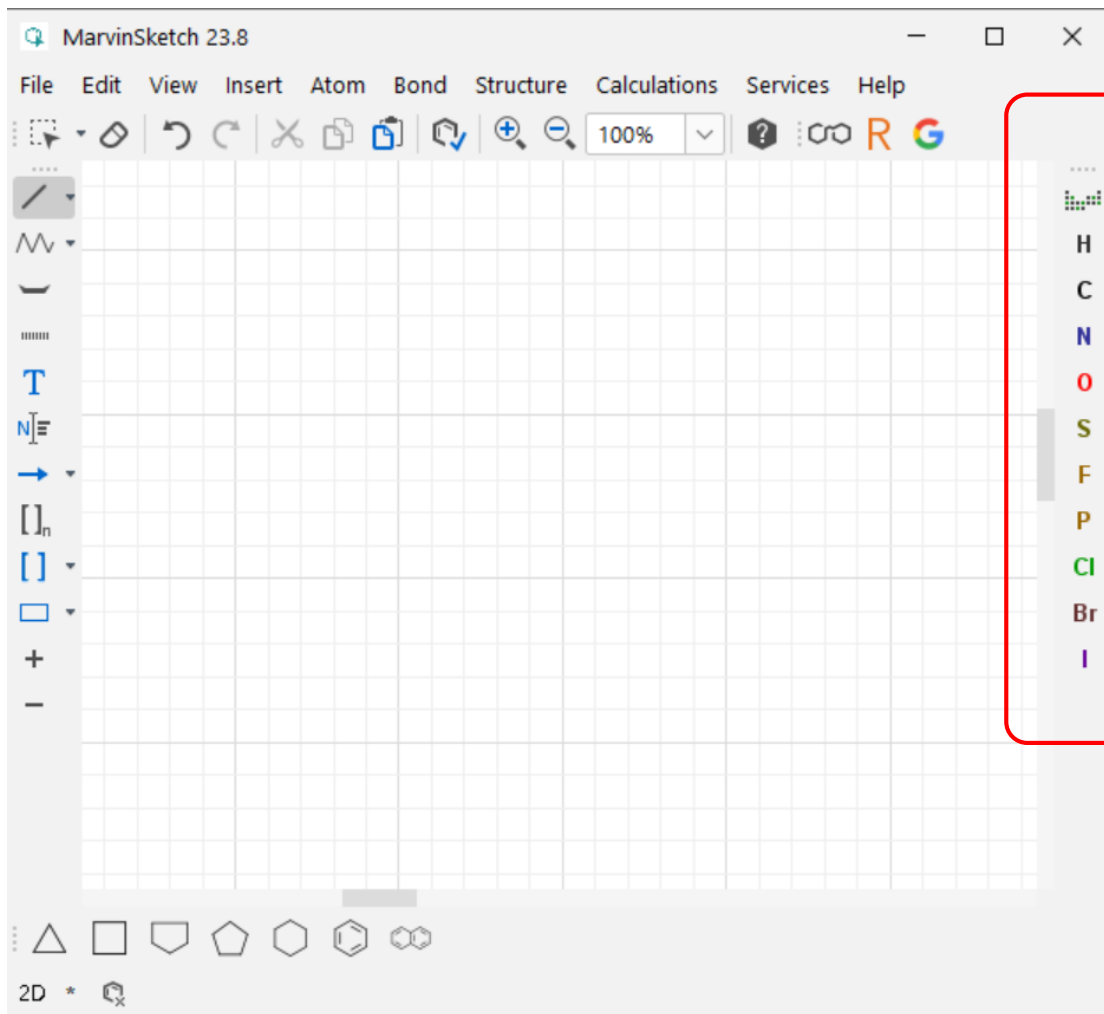
Settings saved.
You might need to restart running applications.

Test

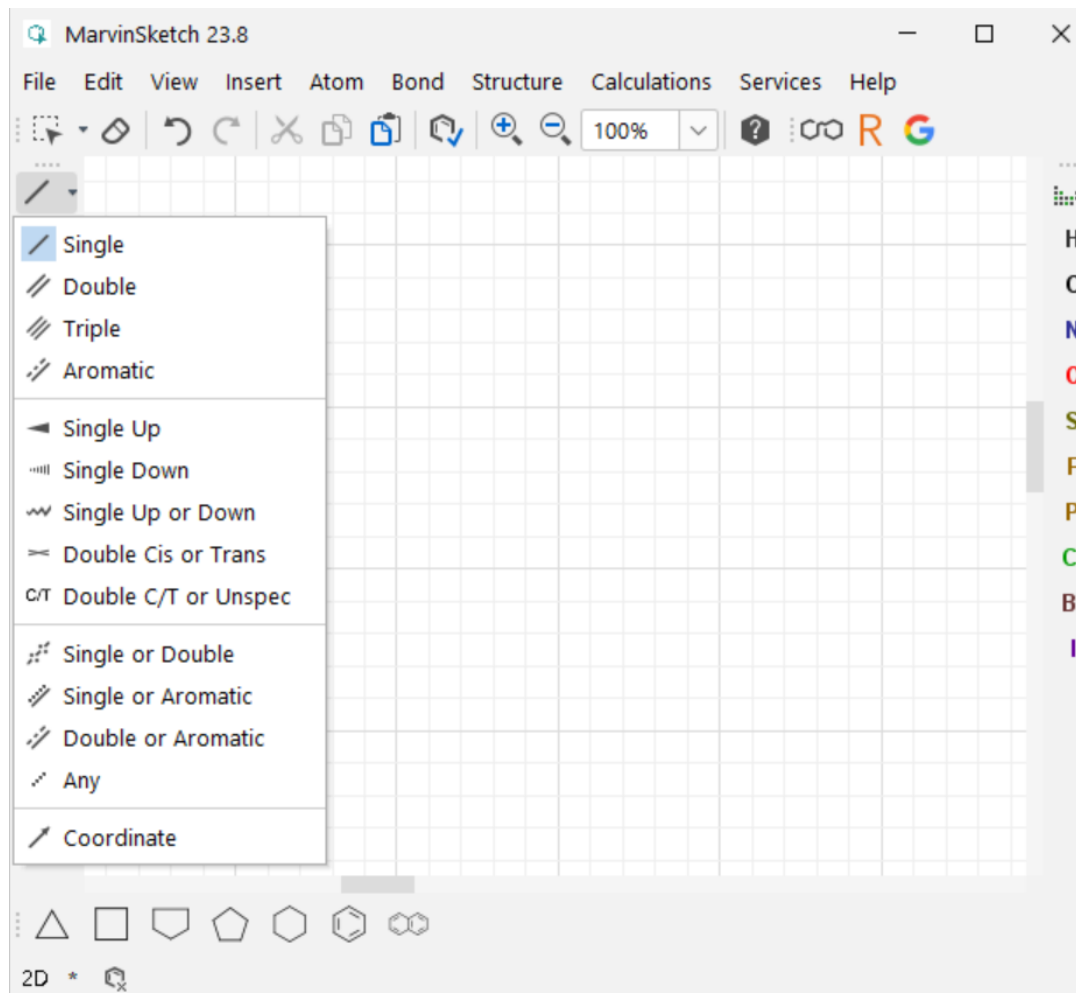
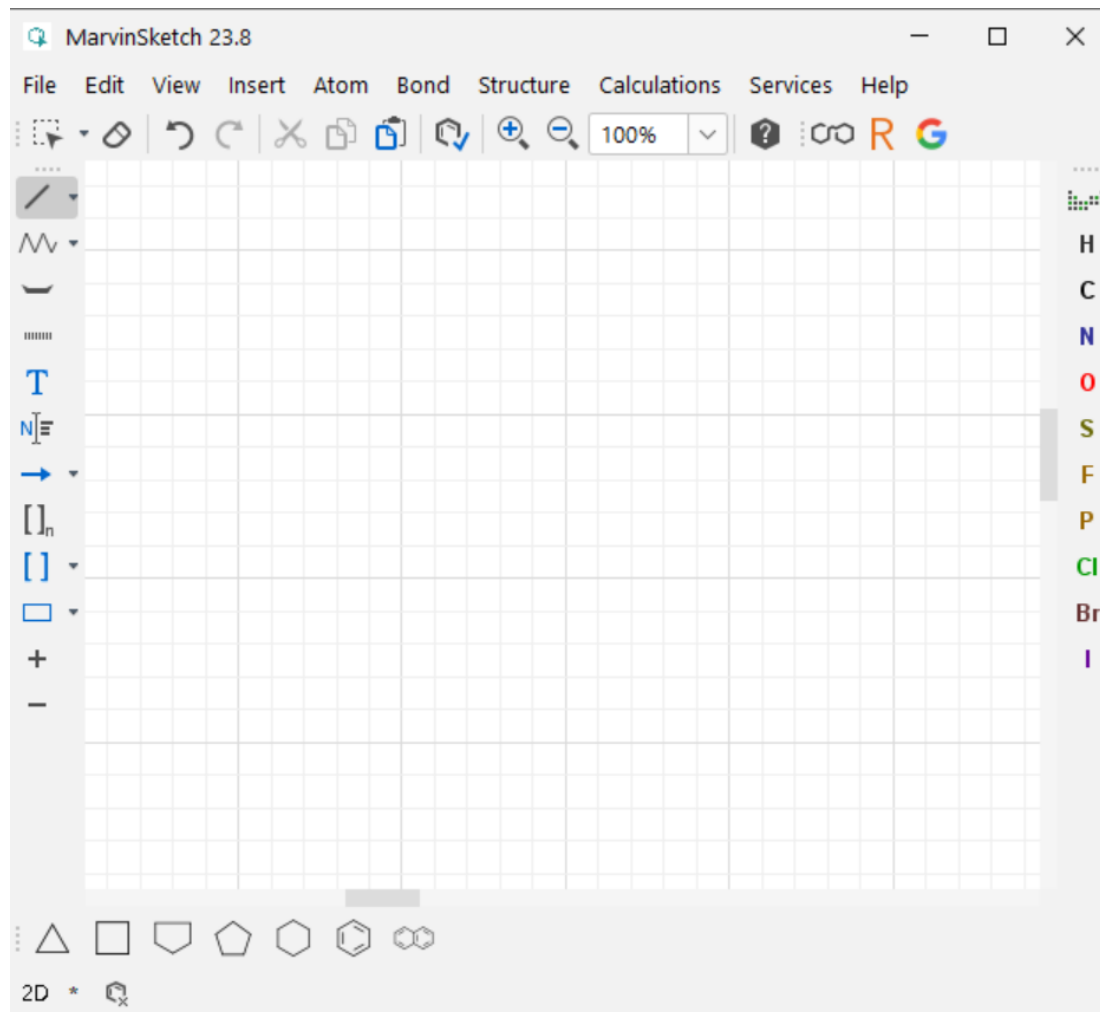
Apply



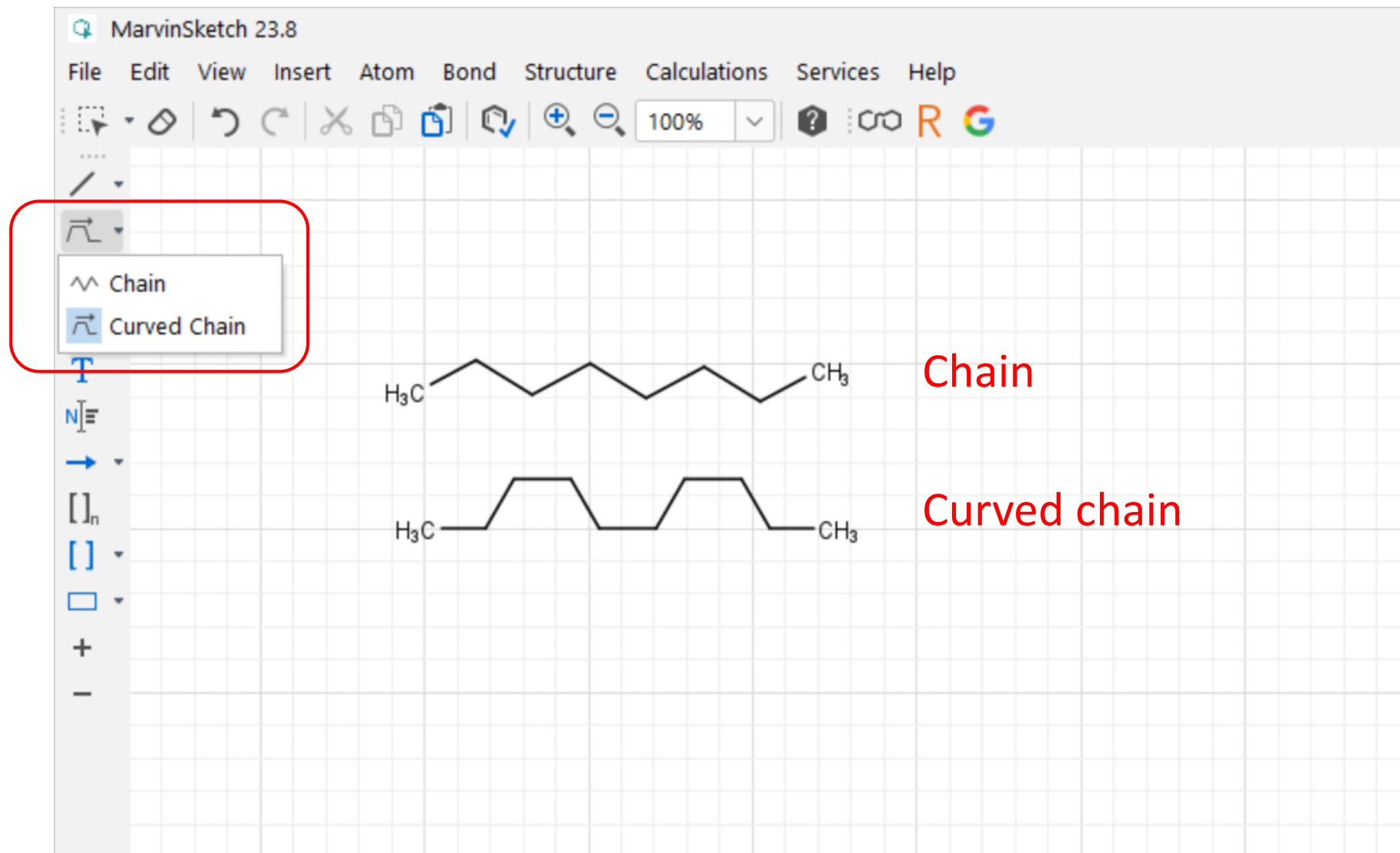
Drawing: Atoms



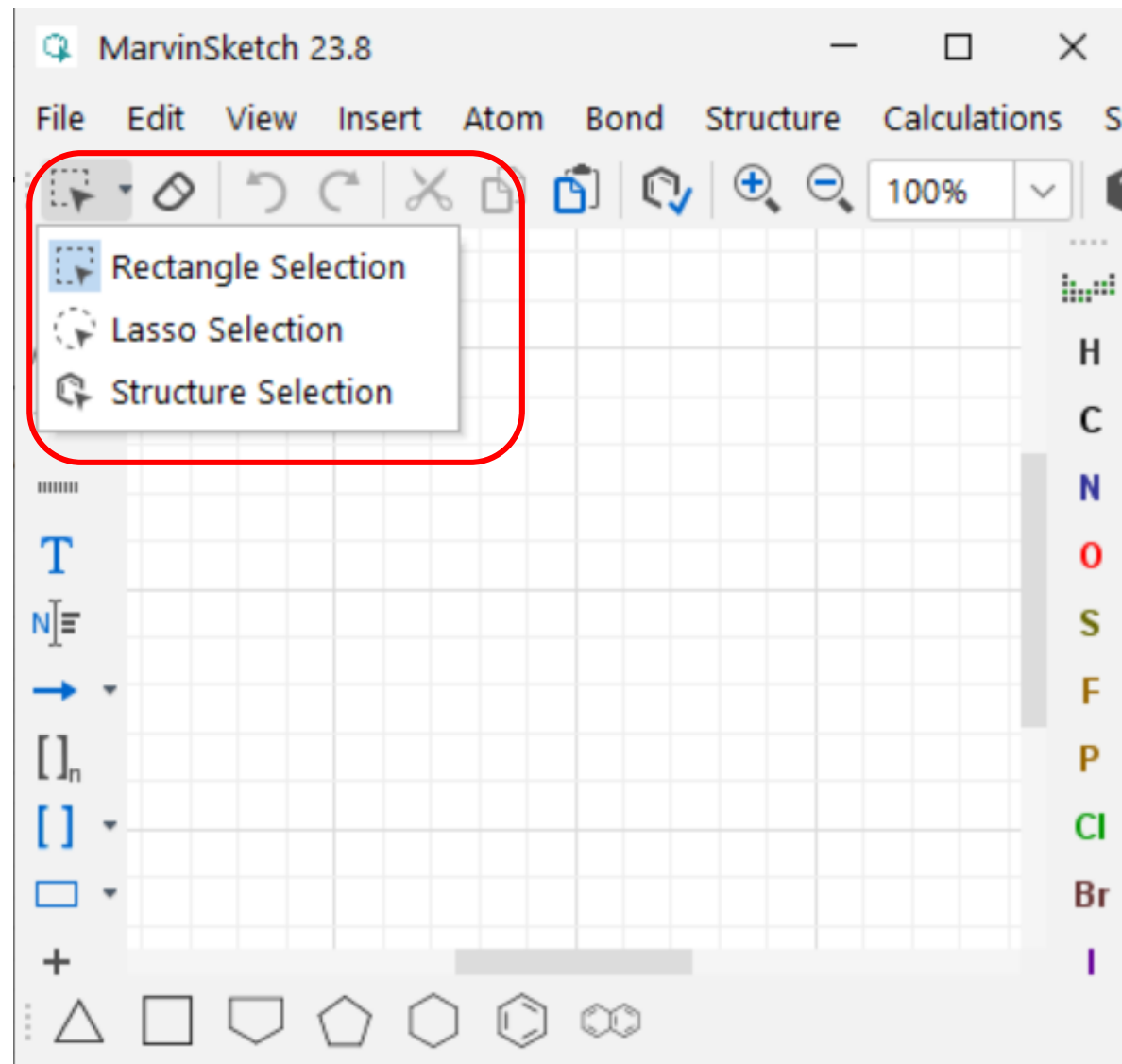
Drawing: Bonds



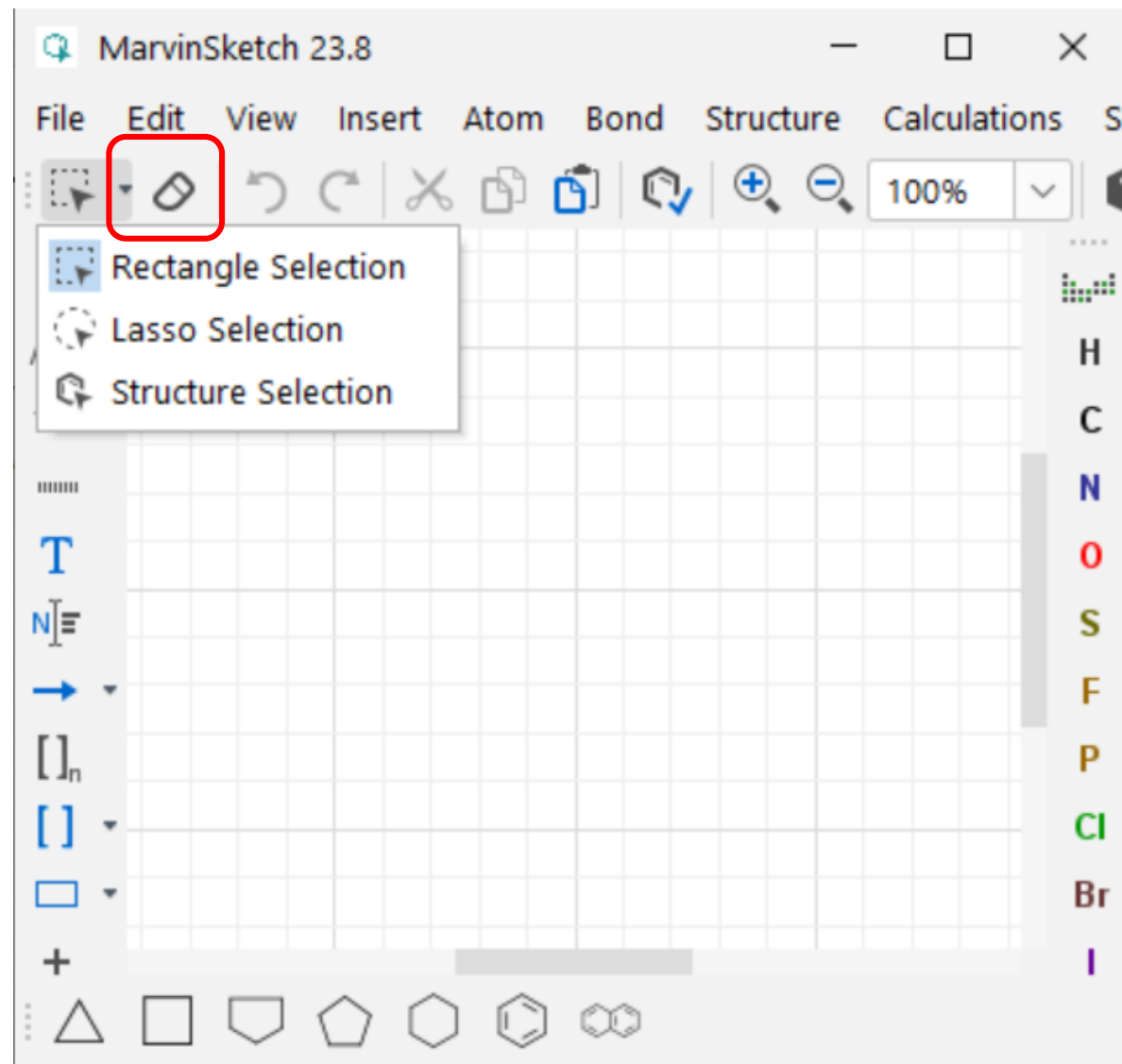
Drawing: Chain



Selecting and Deleting

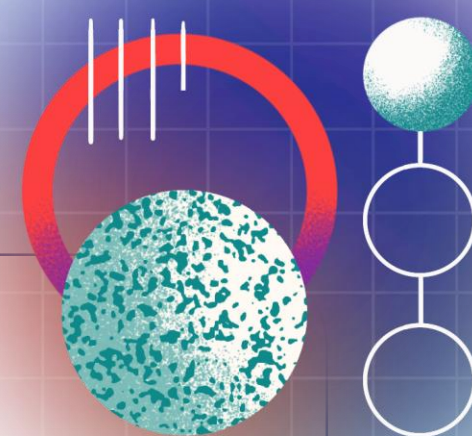


Selecting and deleting



Chemical Database

- PubChem (<https://pubchem.ncbi.nlm.nih.gov/>)
- ChemSpider (<http://www.chemspider.com/>)
- ChEBI (<https://www.ebi.ac.uk/chebi/>)





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ChemSpider

Search and share chemistry



For medical information relating to Covid-19, please consult the [World Health Organisation](#) or local healthcare provision.

[Simple](#) [Structure](#) [Advanced](#) [History](#)

Search ChemSpider

Matches any text strings used to describe a molecule.



Systematic Name, Synonym, Trade Name, Registry Number, SMILES, InChI or CSID [?](#)

What is ChemSpider?

ChemSpider is a free chemical structure database providing fast text and structure search access to over 100 million structures from hundreds of data sources.

Search by chemical names

- Systematic names
- Synonyms
- Trade names
- Database identifiers

Search by chemical structure

- Create structure-based queries
- Draw structures in the web page
- Use structure files from your computer

Find important data

- Literature references
- Physical properties
- Interactive spectra
- Chemical suppliers

Blog

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124³⁴ Million
chemical structures

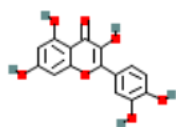
SEARCH FOR

quercetin



Treating this as a text search.

BEST MATCH

[Quercetin](#); 117-39-5; Meletin; Sophoretin; [Quercetine](#); Xanthaurine; Quercetol; Quertine; ...Compound CID: [5280343](#)MF: [C₁₅H₁₀O₇](#) MW: 302.23g/mol

IUPAC Name: 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxychromen-4-one

Isomeric SMILES: C1=CC(=C(C=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O)O

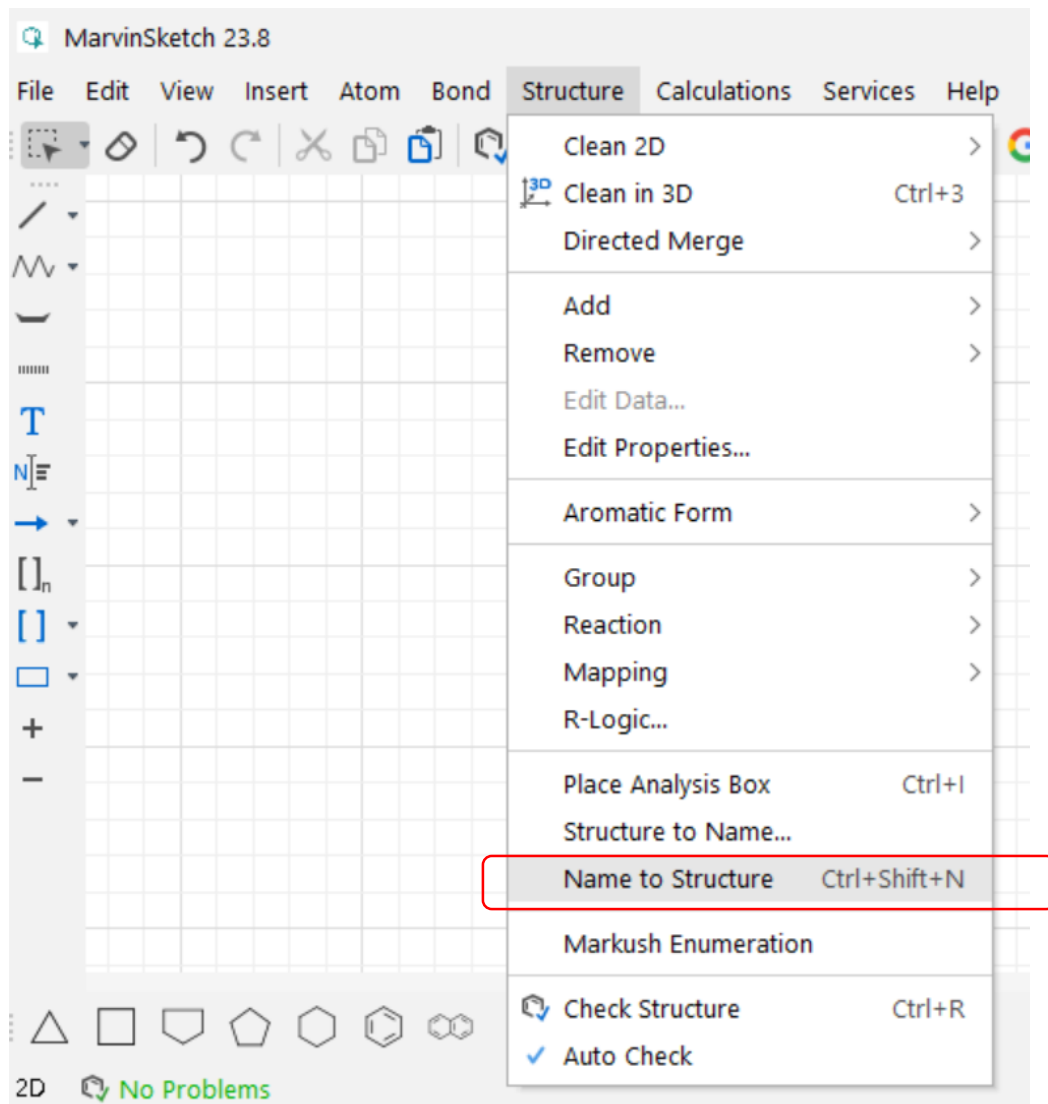
InChIKey: REFJWTPEDVJJY-UHFFFAOYSA-N

InChI: InChI=1S/C15H10O7/c16-7-4-10(19)12-11(5-7)22-15(14(21)13(12)20)6-1-2-8(17)9(18)3-6/h1-5,16-19,21H

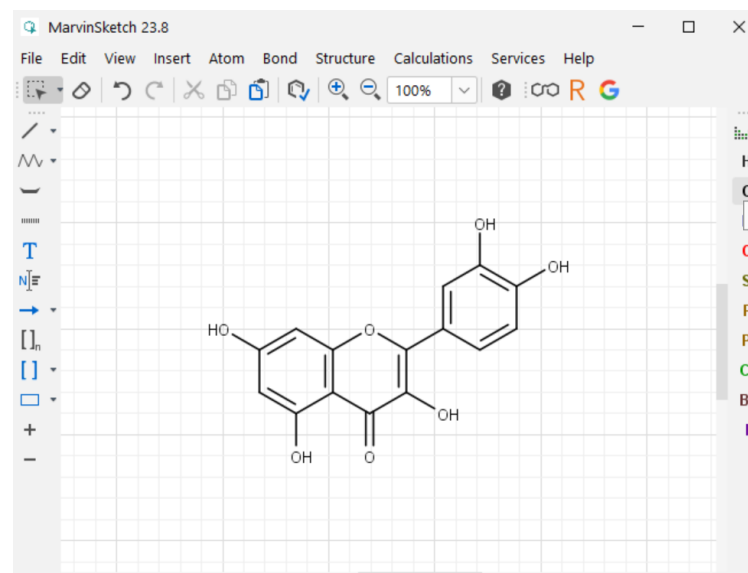
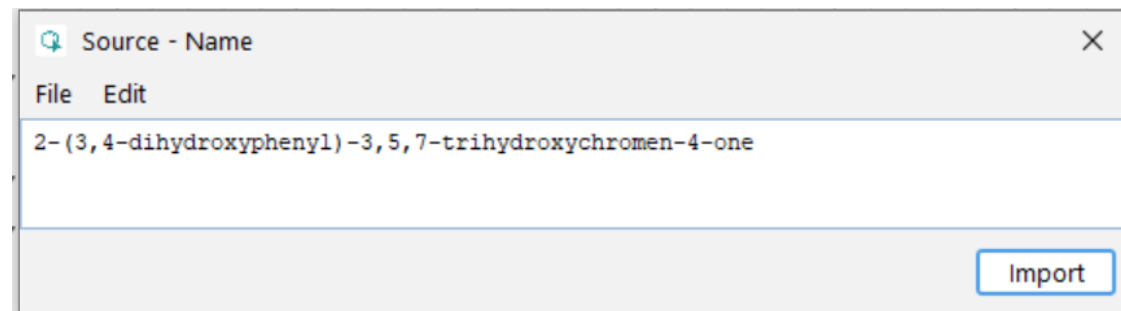
Create Date: 2004-09-16

[Summary](#)[Similar Structures Search](#)[Related Records](#)[PubMed \(MeSH Keyword\)](#)[Compounds](#)
(728)[Substances](#)
(2,942)[Genes](#)
(9)[Proteins](#)
(22)[Pathways](#)
(177)[BioAssays](#)
(2,728)[Literature](#)
(25,591)[Patents](#)
(1,747)

Name to Structure

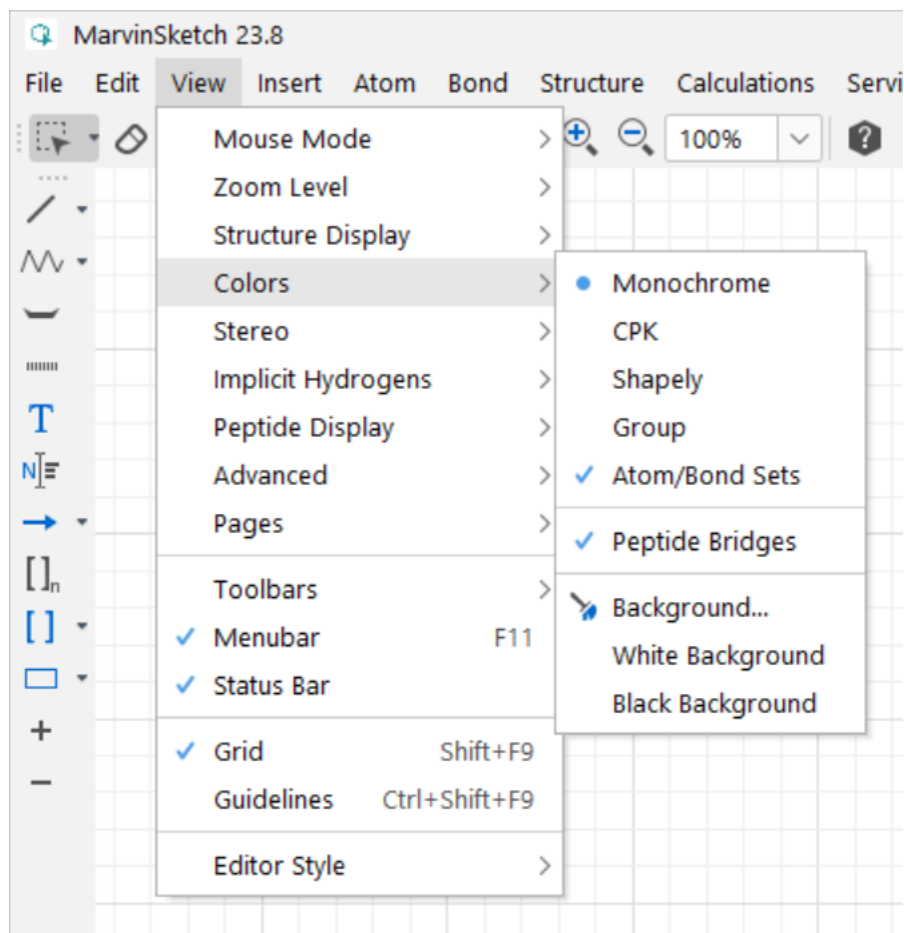


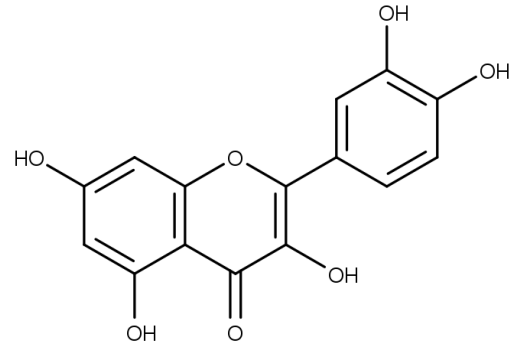
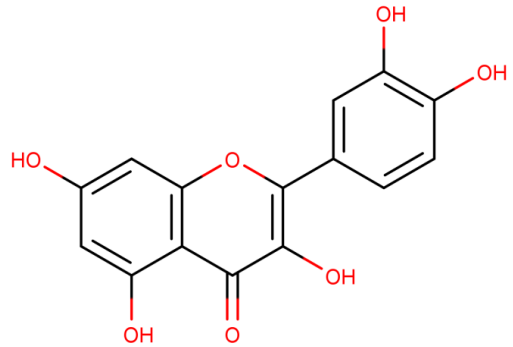
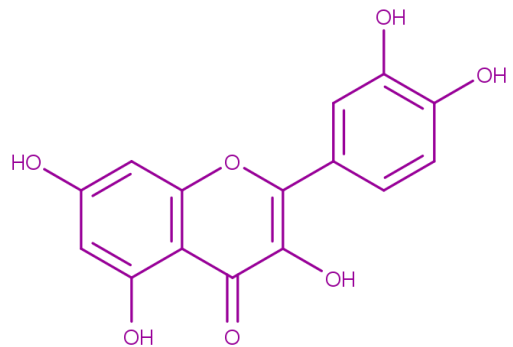
IUPAC name



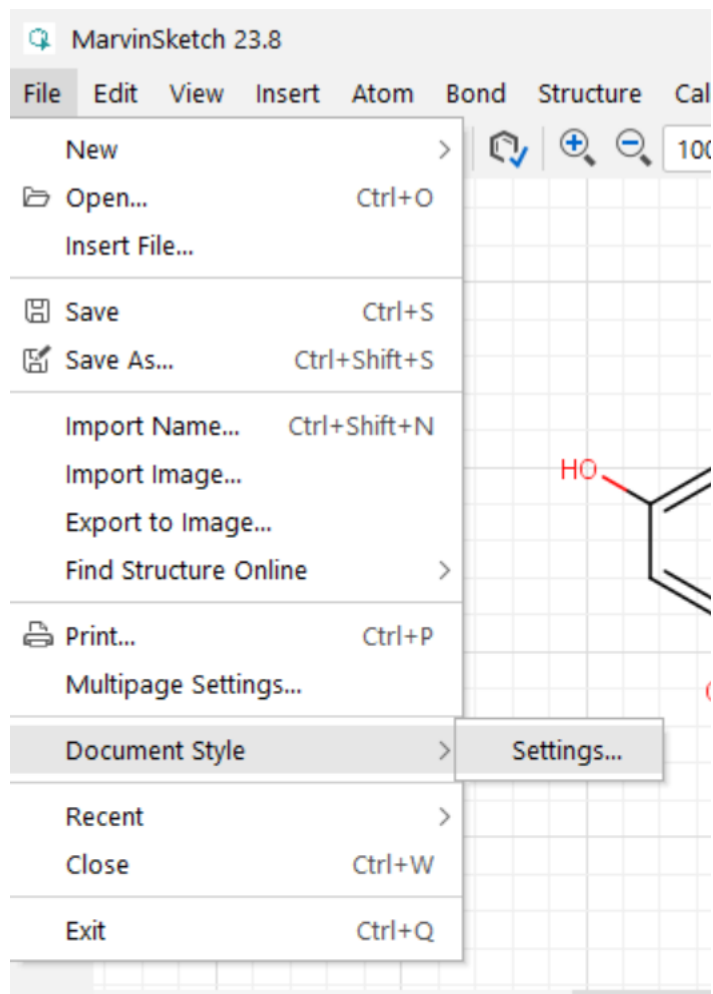
Colors

View > Colors

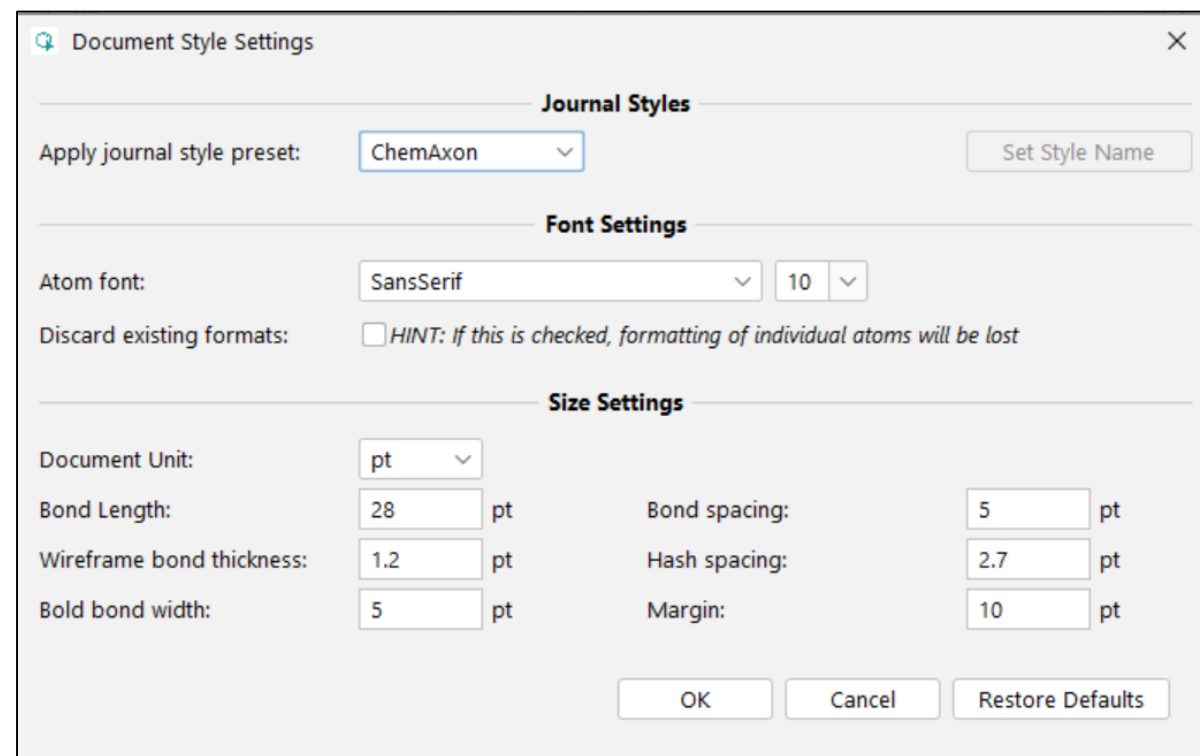


Color	Example
Monochrome	
CPK	
Shapely	

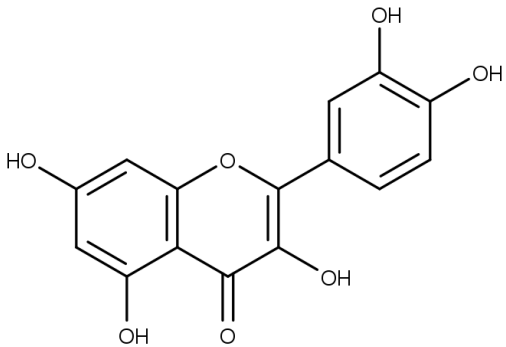
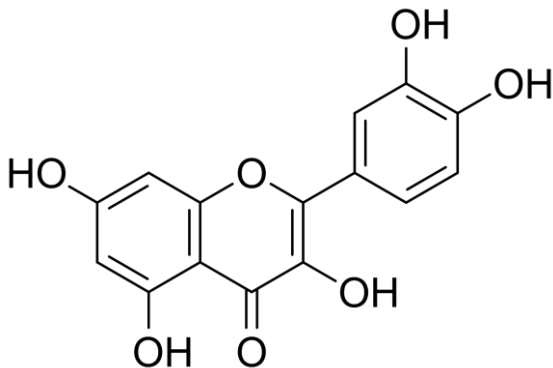
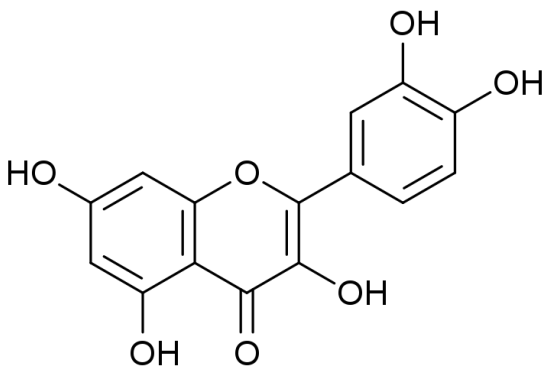
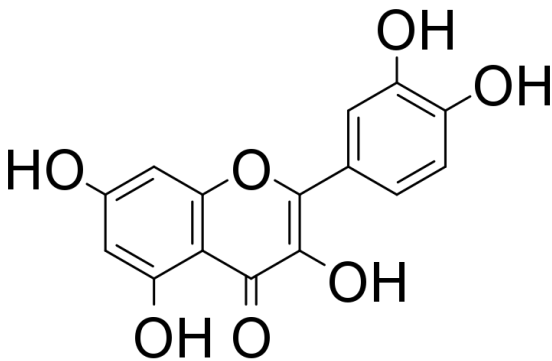
Journal style



File > Document Style > Settings

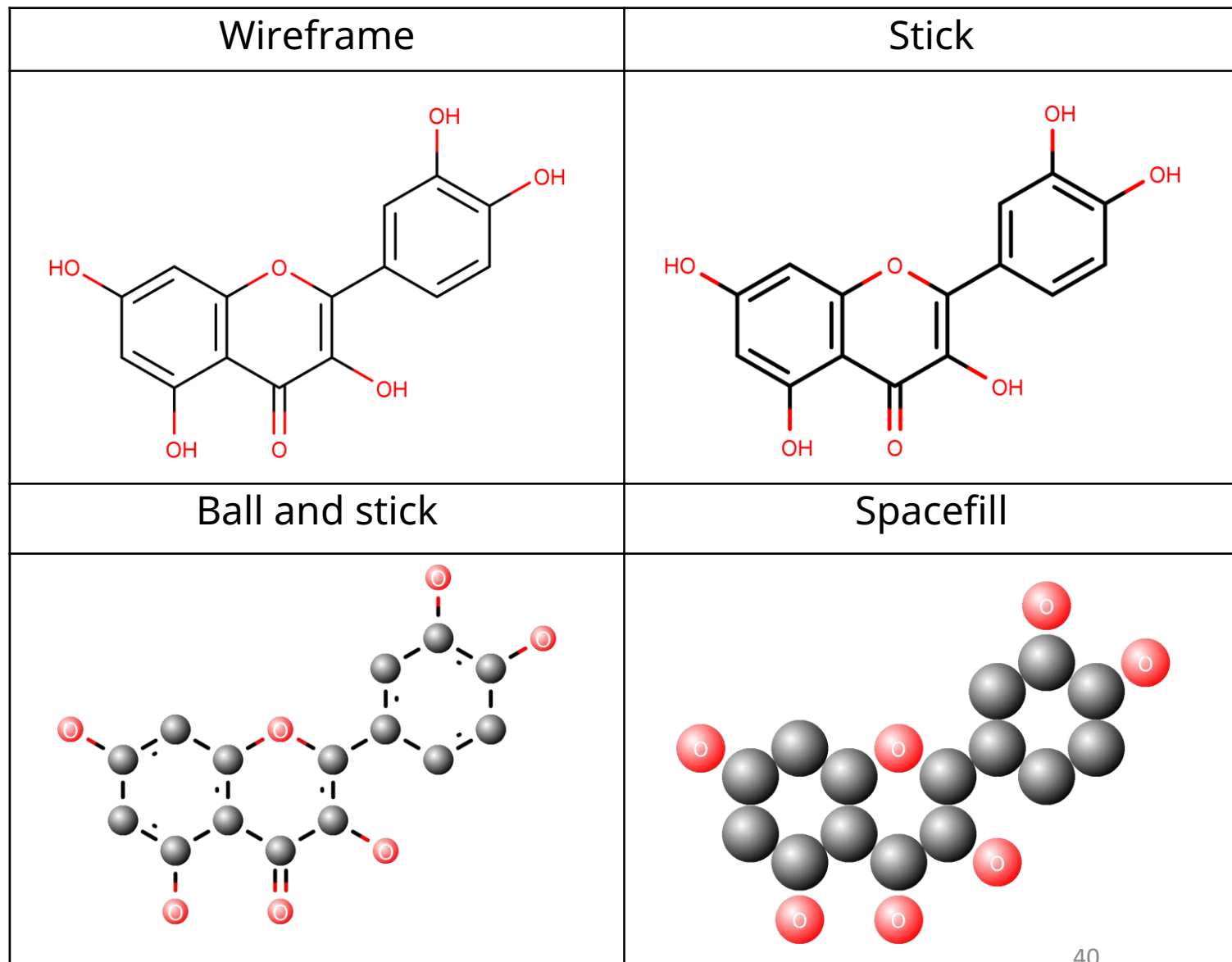
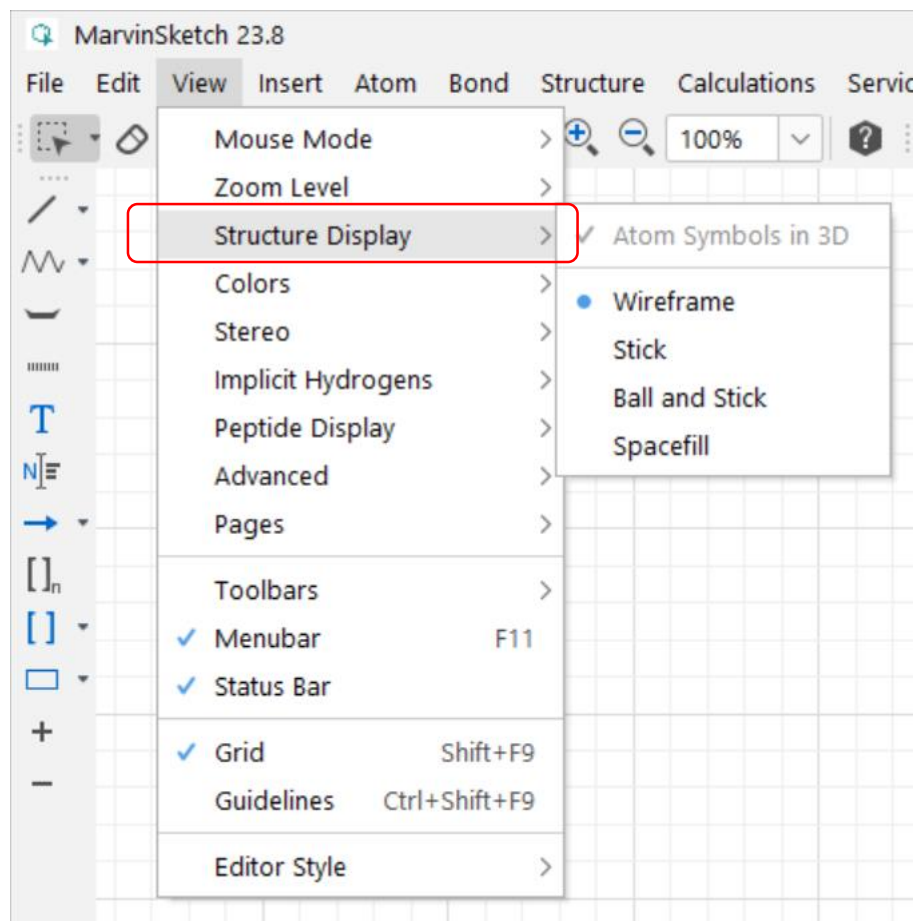


Journal style

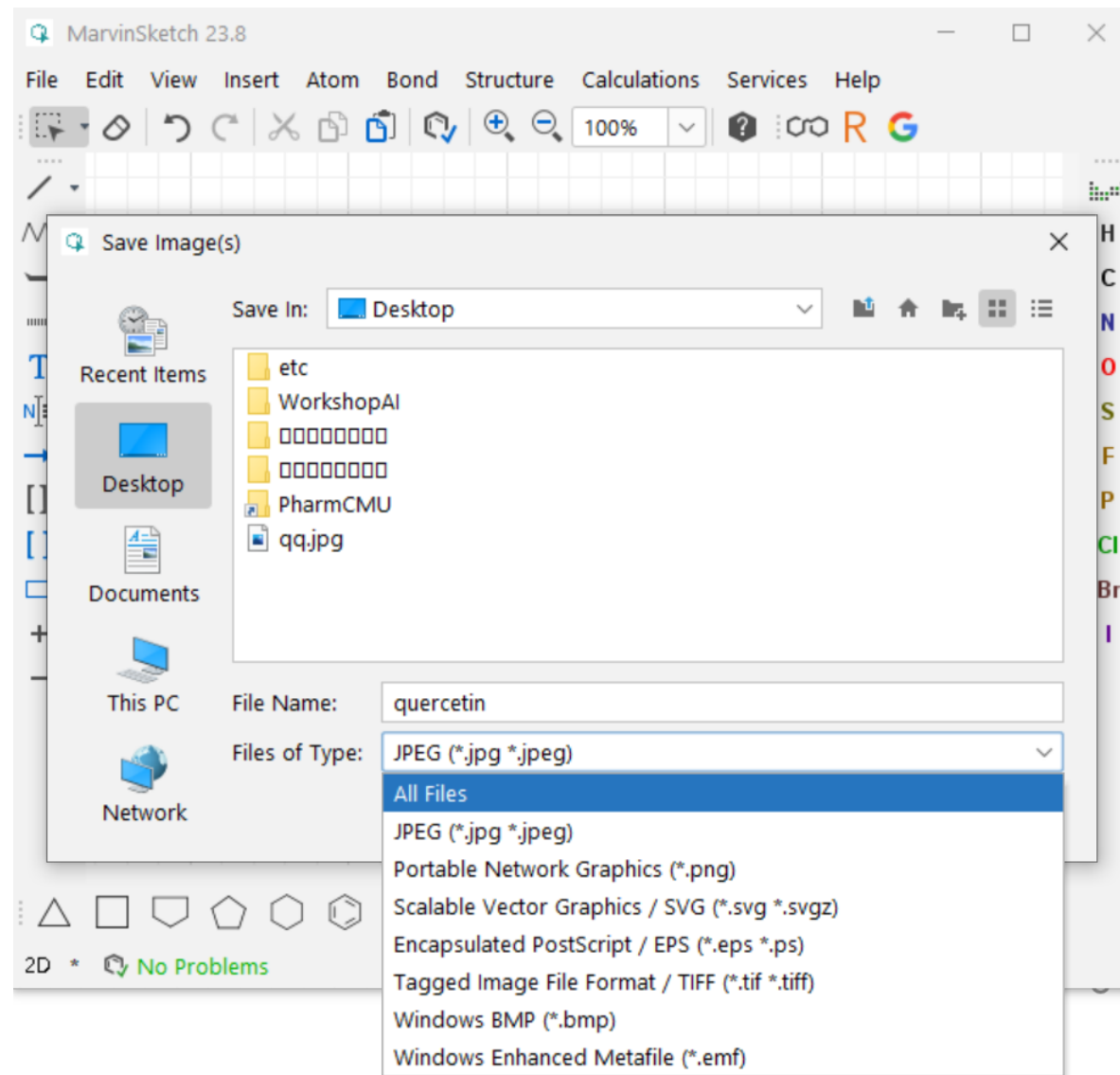
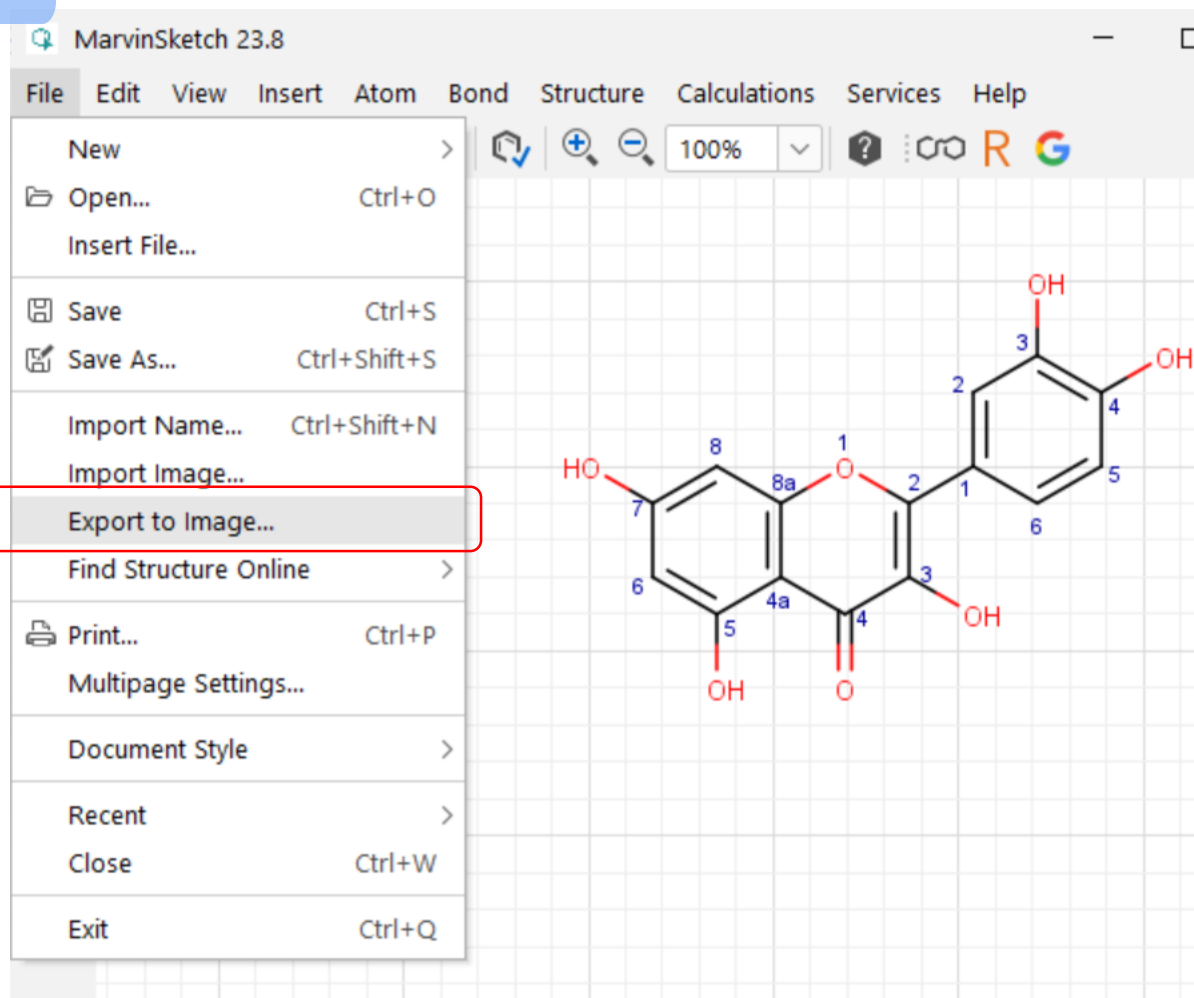
ChemAxon	ACS	RSC	Elsevier
			

Structure Display

- View > Structure Display



Export to image



Export to image

Export as PNG image

Size

Relative scale:	1.0	
Scale:	18.0	
Height:	197	Width: 261
Margin:	10.0	

Save source

☒ Save source

Color depth

32

Alpha Chanel

☒ Use Alpha channel

Save



Export as PNG image

Size

Relative scale:	2.4752475247524752	
Scale:	44.554455445544555	
Height:	500	Width: 631
Margin:	10.0	

Save source

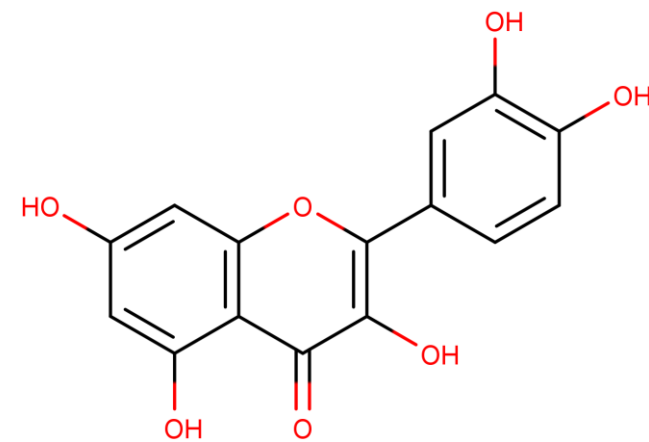
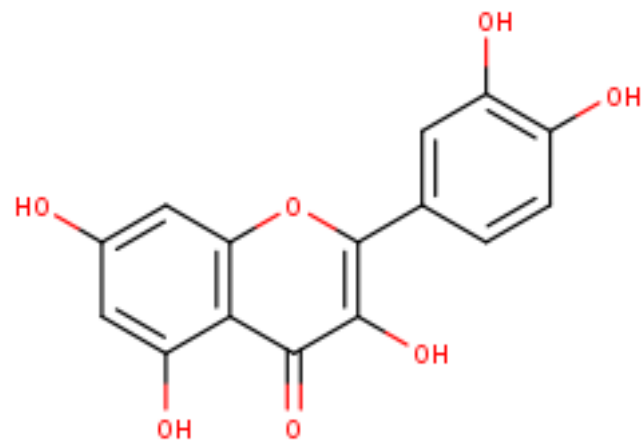
☒ Save source

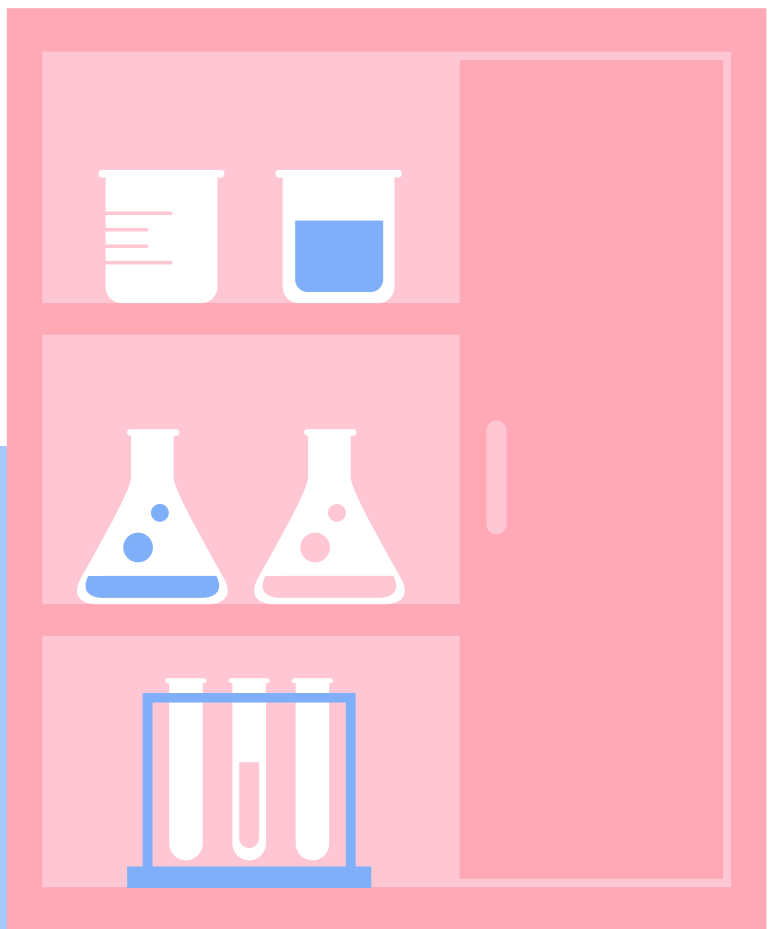
Color depth

32

Alpha Chanel

☒ Use Alpha channel





THANK YOU!

Feel free to contact me if you have any questions



EMAIL

siripat.chaichit@cmu.ac.th