

MARVIN JS

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THE CHEMICAL DRAWING BROWSER COMPONENT



Fits into different workflows

tutoring



designing



searching



visualizing



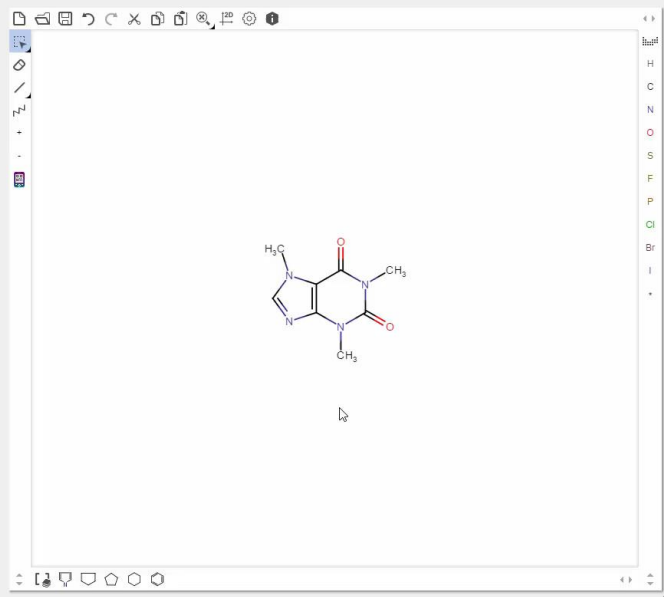
Custom button

Create QR Code with Marvin JS

You can create QR Code from the drawn structure with the help of the MolConvert web service.

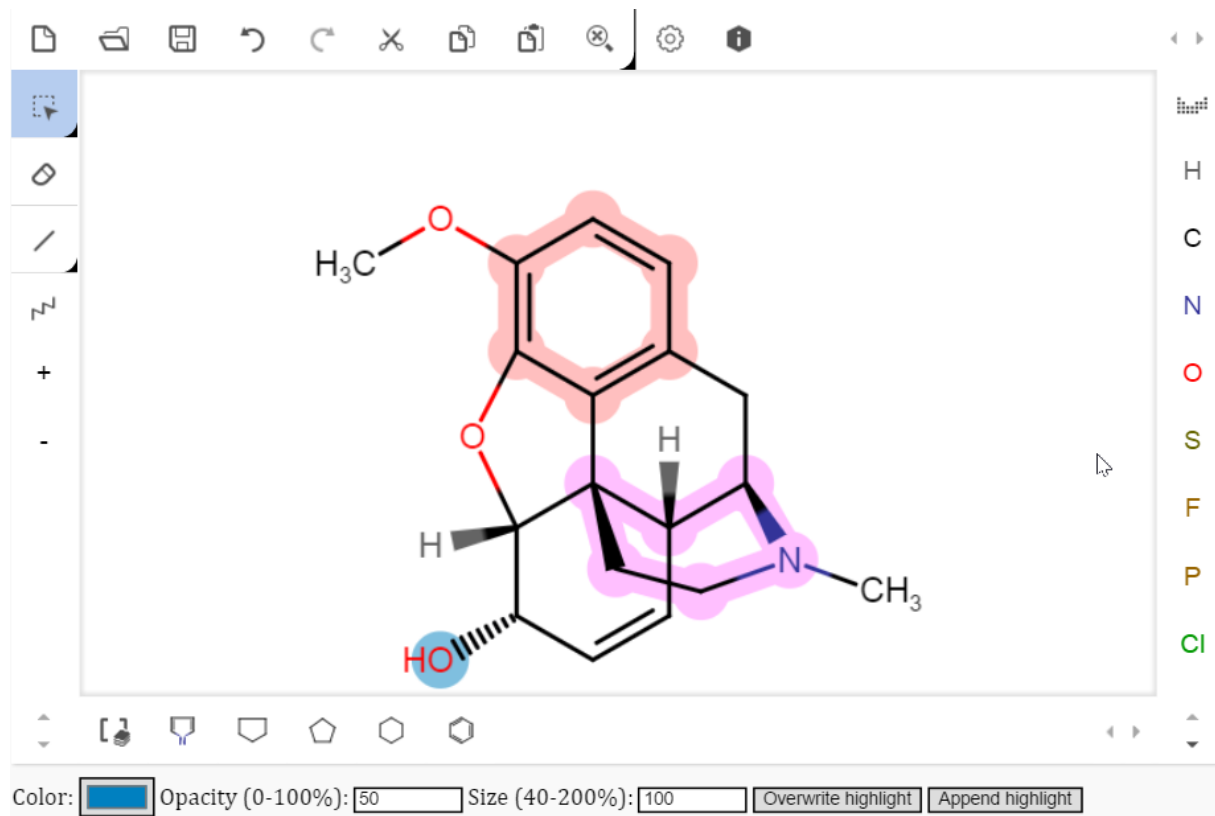
Please, press the  button on the left toolbar to generate QR Code image from the current structure. The generated code can be scanned by your mobile phone (eg. with these apps: [iOS](#), [Android](#)).

QR Code target:



The screenshot displays the Marvin JS web interface. At the top, there is a toolbar with various icons for editing and viewing. Below the toolbar is a large white canvas where a chemical structure is drawn. The structure is a pyrimidopyrimidinone derivative, specifically 1,3,7-trimethylxanthine (caffeine), with methyl groups (CH₃) attached to the nitrogen atoms and carbonyl groups (C=O) at the 2 and 6 positions. To the right of the canvas is a vertical menu with letters representing elements: H, C, N, O, S, F, P, Cl, Br, I, and a plus sign. At the bottom of the canvas, there is a mouse cursor. Below the canvas, there are navigation and zoom controls.

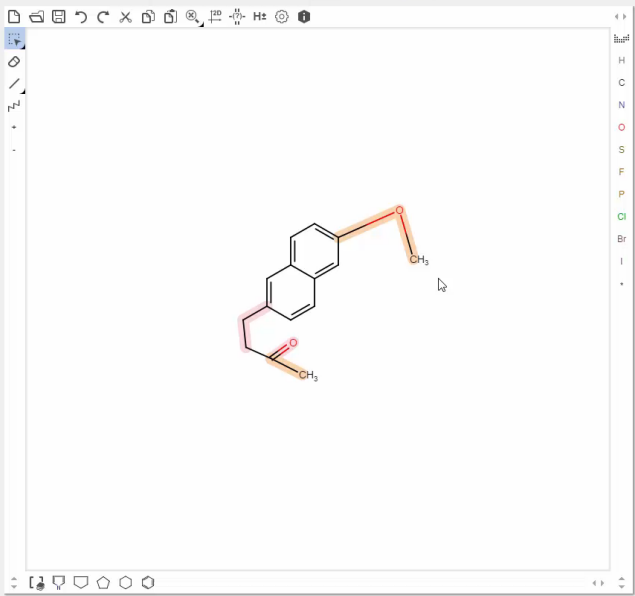
Highlights (unique atom and bond IDs)






Integration with Structure Checker

Structure Checker with Marvin JS

Integration of Structure Checker web service into Marvin JS editor. (In this case JChem WS requires the Structure Checker license.)



Structure Checker configuration

- Bond length  [description](#)
- Bond angle  [description](#)
- Atom map  [description](#)

Structure Errors



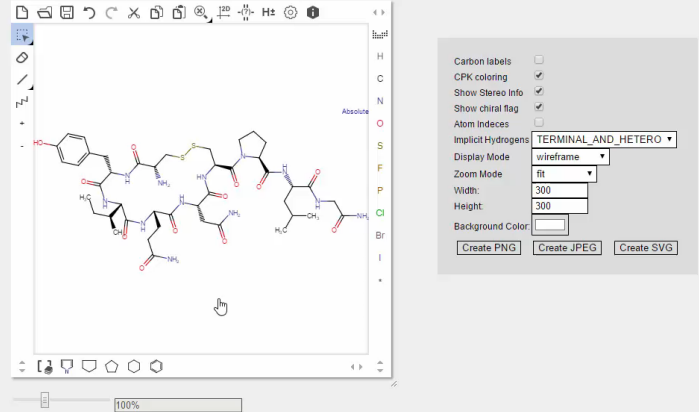
-  (Bond Length Checker): 3 bonds found with wrong length
-  (Bond Angle Checker): 3 wrong bond angles found

Image generation (SVG)

Marvin JS Examples - Convert Structure To Image

In this example, you can create PNG, JPEG or SVG picture from the given molecule source.

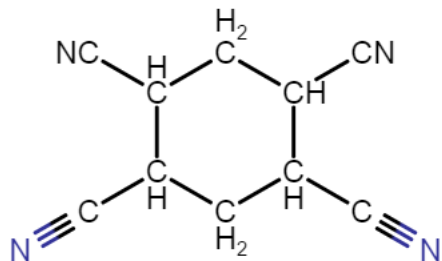
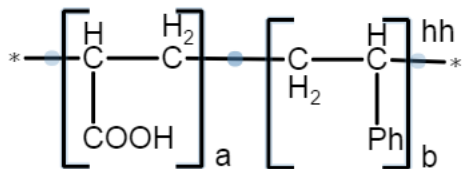


The screenshot displays a web interface for converting a chemical structure to an image. On the left, a complex organic molecule is shown in a wireframe display mode. The molecule features a central benzene ring with various substituents, including a hydroxyl group, a methyl group, and several amide and ester linkages. The interface includes a toolbar with icons for file operations, zooming, and navigation. A vertical legend on the right side of the canvas lists elements: H, C, N, O, S, F, P, Cl, Br, I. Below the canvas, a zoom slider is set to 100%. To the right of the canvas is a settings panel with the following options:

- Carbon labels:
- CPK coloring:
- Show Stereo Info:
- Show chiral flag:
- Atom Indices:
- Implicit Hydrogens: TERMINAL_AND_HETERO
- Display Mode: wireframe
- Zoom Mode: fit
- Width: 300
- Height: 300
- Background Color:

At the bottom of the settings panel are three buttons: **Create PNG**, **Create JPEG**, and **Create SVG**.

For the chemists?



- More abbreviated groups, synchronized with MarvinSketch
- Abbreviated group rendering improvements
- Extended SRU polymer notation
- Allowing to beautify only the part of the canvas (partial clean)

TOGETHER WE MAKE THE MAGIC HAPPEN

THANK YOU