



# Office helper



what is the logS of caffiene

The word 'caffeine' misspelled intentionally and corrected in the following answers.

Additional calculation of logS realised.



The logS of caffeine is -2.0. This value indicates the solubility of caffeine in water, with a negative logS suggesting that caffeine is relatively insoluble in water.



show me the MW and its 2d structure

Support querying two properties at a time.



Certainly! Here is the information for caffeine:

- **Molecular Weight (MW):** 194.19 g/mol
- **2D Structure:** Unfortunately, I cannot display images directly. However, you can view the 2D structure of caffeine by following this [link](#).

MW accurate, graceful handling of image demonstration error when there is an API problem.

If you have any more questions about caffeine or need further assistance, feel free to ask!



is it poisonous?

Web search triggered automatically.



Caffeine can be toxic if consumed in large amounts. This condition is known as caffeine toxicity or caffeine poisoning. The symptoms of caffeine toxicity can vary depending on the amount consumed and an individual's sensitivity to caffeine. Common symptoms include restlessness, nervousness, insomnia, gastrointestinal disturbances, increased heart rate, and muscle tremors. In severe cases, it can lead to more serious conditions such as seizures, cardiac arrhythmias, or even death.

For most adults, the threshold for caffeine toxicity is generally considered to be around 400 mg, though some people may experience symptoms at lower doses. Acute caffeine poisoning is more likely if large amounts are consumed in a short period, usually through energy drinks, caffeine pills, or other concentrated sources.

If caffeine toxicity is suspected, it is important to reduce caffeine intake and seek medical

attention. Treatment typically involves supportive care, such as hydration and monitoring of vital signs, and in some cases, medications to manage symptoms like seizures or arrhythmias.



well done, I need to know the molecular formula.

Formula accurate and response organised in a user-friendly form.



The molecular formula for caffeine is  $C_8H_{10}N_4O_2$ . This formula indicates that each molecule of caffeine consists of 8 carbon atoms, 10 hydrogen atoms, 4 nitrogen atoms, and 2 oxygen atoms. If you have any more questions about caffeine or other chemical compounds, feel free to ask!

Ask me something about a molecule...

