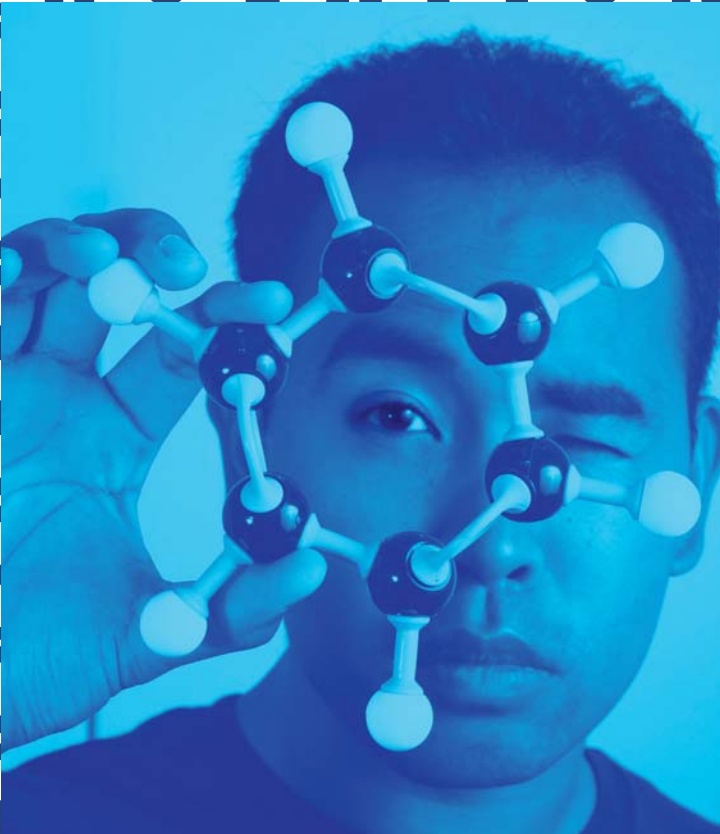


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INFO.KNOVEL.COM/CHALLENGE

# Take the University Challenge

1. Tylenol is a common drug that is used for the relief of fever, headaches, and other minor aches and pains. Using Knovel, find the CAS Registry Number.  
a) 21293-29-8    b) 105-57-7    c) 103-90-2    d) 514-10-3    e) None of these choices
2. What is the molecular formula of caffeine?  
a)  $C_5H_8O_2$     b)  $C_{20}H_{30}O_2$     c)  $C_6H_5N_3O_5$     d)  $C_8H_{10}N_4O_2$     e) None of these choices
3. Using Knovel Critical Tables and the equation plotter, find the vapor pressure of ammonium bromide at 594.3 K. (3 significant digits)  
a) 0.939 bar    b) 0.138 bar    c) 0.048 bar    d) 0.376 bar    e) 0.169 bar
4. What is the water solubility of 1-Octanol?  
a) 540 mg/kg    b) 960 mg/kg    c) Infinite    d) Explodes on Contact    e) 4000 mg/kg
5. The thermal conductivity of Silver Chloride at maximum temperature is 0.00563 W/m K. Using the Unit Converter; find the maximum temperature Btu/h ft °F?



Find the answers and submit your entry at [info.knovel.com/challenge](http://info.knovel.com/challenge)