Answer on Question #67254 - Chemistry -General Chemistry

If the caffeine concentration in a particular brand of soda is 1.99 mg/oz, drinking how many cans of soda would be lethal? Assume 10.0 grams of caffeine is a lethal dose, and there are 12 oz in a can.

Solution:

Find the caffeine mass in a can: m (caffeine) = $1.99 \times 12 = 23.88$ mg A single can of soda contains 23.88 mg of caffeine x - 10.0 g of caffeine x = $10.0 \times 1000/23.88 = 418.76 \approx 419$ cans

Answer:

419 cans.

Answer provided by AssignmentExpert.com