

Mole Conversion Video Problems

1. What is the mass, in grams, of 2.50 moles of methane, CH_4 ?
2. How many moles of helium atoms are in 16 grams of helium?
3. What is the volume, in liters, of 0.50 moles of ammonia, NH_3 ?
4. How many moles of propane, C_3H_8 , are in 67.2 liters of propane?
5. A sample of carbon contains 9×10^{23} atoms of carbon. How many moles of carbon are in the sample?
6. How many molecules of ethane, C_2H_6 , are in 4 moles of ethane?
7. What is the mass, in grams, of 1.5×10^{23} molecules of methane, CH_4 ?
8. What volume, in liters, is occupied by 15 grams of ethane, C_2H_6 ?