

Mole Conversions

Converting Between Moles and Grams

Example One:

How many grams is 5.0 moles of iron (Fe)?

Example Two:

How many grams is 2.0 moles of water?

Example Three:

How many moles is 30.03 grams of $\text{HC}_2\text{H}_3\text{O}_2$?

Converting Between Moles and Particles

Example Four:

How many atoms are in 3.0 moles of Iron?

Example Five:

How many moles are in 9.0×10^{24} molecules of NO_2 ?

Converting Between Grams and Particles

Question Six:

How many grams is 4.0×10^{23} atoms of copper?

Question Seven:

How many molecules is 88 grams of CO_2 ?

Question Eight:

How many grams is 3.01×10^{23} molecules of dinitrogen pentoxide, N_2O_5 ?

Question Nine:

How many formula units is 8.6 grams of zinc chloride, ZnCl_2 ?

Question Ten:

How many grams is 8.56×10^{24} molecules of sucrose $C_{12}H_{22}O_{11}$?