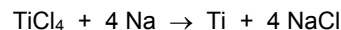




MOLE CALCULATIONS 2

- 1) Titanium is extracted from titanium chloride as shown. Calculate the mass of sodium needed to react with 10 g of titanium chloride.

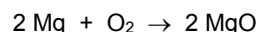


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- 2) Calculate the mass of oxygen needed to react 50 g of magnesium to form magnesium oxide.

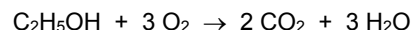


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- 3) What mass of ethanol could burn in 100 g of oxygen?

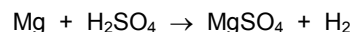


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- 4) What mass of hydrogen is formed when 2 g of magnesium reacts with sulfuric acid?

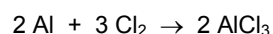


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- 5) What mass of aluminium reacts with 50 g of chlorine to form aluminium chloride?

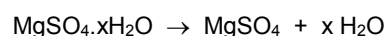


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- 6) 6.15 g of hydrated magnesium sulfate decompose to form 3.00 g of anhydrous magnesium sulfate on heating. Calculate the formula mass of hydrated magnesium sulfate and the value of x.



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