D) 3 moles of aluminum to 2 moles of oxygen

14) The percent by mass of water in the hydrate Na ₂ SO ₄ •10H ₂ O is closest to A) 18% B) 44% C) 56% D) 76%		18) What is the empirical formula of a compound consisting of 29.6% oxygen and 70.4% fluorine by mass?	
	A) OF B) OF ₂ C) O ₂ F D) O ₂ F ₄		
all the water of l mass of anhydro	mple of a hydrate was heated until hydration was driven off. The bus product remaining was 8.00 the percent of water in the B) 20.0% D) 80.0%	—— 19) A substance has an empirical formula of CH ₂ and a molar mass of 56 grams per mole. The molecular formula for this compound is A) CH ₂ B) C ₄ H ₆ C) C ₄ H ₈ D) C ₈ H ₄	
16) A hydrate is a compound with water molecules incorporated into its crystal structure. In an experiment to find the percent by mass of water in a hydrated compound, the following data were recorded: Mass of crucible + hydrated crystals before heating 7.50 grams Mass of crucible 6.90 grams Mass of crucible + anhydrous crystals after heating 7.20 grams 7.20 grams		20) A compound has an empirical formula of HCO ₂ and a molecular mass of 90. grams per mole. What is the molecular formula of this compound? A) HCO B) H ₂ C ₂ O ₄ C) H ₄ C ₄ O ₈ D) H ₆ C ₆ O ₁₂	
What is the perc hydrate?	eent by mass of water in the		
A) 8.0 % C) 72. %	B) 50. % D) 96. %		
17) What is the empirical formula of a compound that contains 30.4% nitrogen and 69.6% oxygen by mass?			
A) NO C) N ₂ O ₃	B) NO ₂ D) N ₂ O ₅		