RCHEM 2 / Chille

EF <==> MF

1) The empirical formula of a compound is CH_2 and its molecular mass is **70**. What is the molecular formula of the compound?

1) C_2H_4 2) C_3H_4 3) C_4H_{10} 4) C_5H_{10}

2) What is the molecular formula of a compound that has a molecular mass of **92** and an empirical formula of **NO**₂? 1) **NO**₂ 2) **N**₂**O**₄ 3) **N**₃**O**₆ 4) **N**₄**O**₈

3) The empirical formula of a compound is C_2H_3 and its molecular mass is 54. What is the molecular formula of the compound?

1) C_2H_4 2) C_4H_6 3) C_4H_8 4) C_6H_{10}

4) The empirical formula of a compound is CH. Its molecular mass could be

 1) 21
 2) 40
 3) 51
 4) 78

5) Which pair of compounds has the same empirical formula?

1) CH₃OH and C₂H₅OH	3) C₂H₆ and C₃H₈
2) C_2H_2 and C_6H_6	4) CH ₃ CHO and CH ₃ COOH

6) Given the structural formula:



What is the empirical formula of this compound?

1) C ₈ H ₂₀ O4	2) C ₄ H ₁₀ O ₂	3) CH₃O	4) C₂H₅O
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7) The molecular formula of a compound is represented by X_3Y_6 . What is the empirical formula of this compound?

1) X_2Y 2) XY_2 3) XY_3 4) X_3Y