

## Empirical Formula

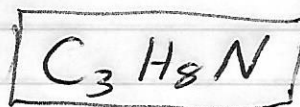
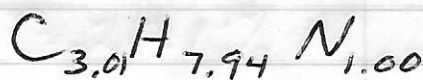
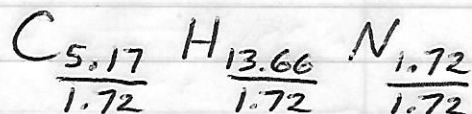
### Practic Problems

① Assume 100g

$$\frac{62.1\text{g C}}{12.01\text{g/mol}} = 5.17\text{ mol C}$$

$$\frac{13.8\text{g H}}{1.01\text{g/mol}} = 13.66\text{ mol H}$$

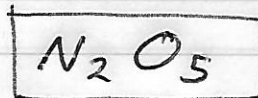
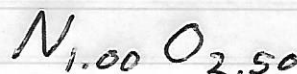
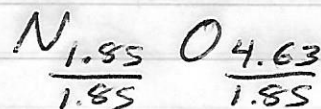
$$\frac{24.1\text{g N}}{14.01\text{g/mol}} = 1.72\text{ mol N}$$



② Assume 100g

$$\frac{25.9\text{g N}}{14.01\text{g/mol}} = 1.85\text{ mol N}$$

$$\frac{74.1\text{g O}}{16.00\text{g/mol}} = 4.63\text{ mol O}$$



↘ x2

③ Assume 100g

$$\frac{40.0\text{g C}}{12.01\text{g/mol}} = 3.33\text{ mol C}$$

$$\frac{6.7\text{g H}}{1.01\text{g/mol}} = 6.63\text{ mol H}$$

$$\frac{53.3\text{g O}}{16.00\text{g/mol}} = 3.33\text{ mol O}$$

