**AMINES AND AMIDES ANSWERS**

* **Organic compounds of nitrogen N**
* **Classified as primary, secondary, tertiary**

 **CH3 CH3**

 **⏐ ⏐**

**CH3—NH2 CH3—NH CH3—N — CH3**

**1° 2° 3°**

**IUPAC NAMING**

 **aminoalkane Common alkylamine**

**CH3CH2NH2 CH3—NH —CH3**

**aminoethane *N*-methylaminomethane**

**(ethylamine) (dimethylamine)**

 **NH2** chloroaniline

 **|**

**CH3CHCH3**

**PRACTICE**

1. CH3NHCH2CH3 -----------**ethylmethylamine**-------
2. CH3

 |

CH3CH2NCH3 ----**--ethyl N, N dimethylamine,**---------

1. CH3CH2CH2CH2CH2-NH2 --**1-aminopentane**
2. 

-----**diisopropylamine**------------------------------------------------

1. 

 ------------**-butyl methyl amine**-----------------------



1. **N-butyl aniline**---------

**AMIDES**

**Derivatives of carboxylic acids where an amino (-NH2) group replaces the –OH group.**

 **O O**

 **|| ||**

 **CH3 —C—OH CH3 —C—NH2**

 **carboxylic acid amide**

 **acetic acid acetamide**

**Naming Amides**

**Alkanamide from acid name**

 **O**

 **|| methanamide (IUPAC)**

**HC–NH2 formamide (common)**

 **O**

 **|| propanamide (IUPAC)**

**CH3CH2C–NH2 propionamide(common)**

**PRACTICE:**

 O

 || **butanamide**

A. CH3CH2CH2C–NH2 ------------------------------------------------------------------------------------------------

 O

 || ***N,N-*diethylethanamide**

B. CH3C–N(CH2CH3)2 ----------------------------------------------------------------------------------------------------



C.

 **---------------N-ethyl-3-bromo pentanamide-------------------------------**

D**.**

 **----------** **butyl methyl amide---------------------------------**

E. O

 || -----------------**Pentanamide---------------**

 CH3CH2CH2CH2C–NH2