**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