

Question #78944

Which is which?

1. Propanone a. Reacts with carbonates and the products are salt, carbon dioxide and H₂O
2. Aniline. b. Contains a benzene ring
3. Cyclohexane. c. Normally written as CH₃COCH₃
4. Methanal d. Is a product of catalytic hydrogenation of benzene
5. Ethanoic acid e. Is an aldehyde

The right order/answer is:

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|------------------|--|
| 1. Propanone | c. Normally written as CH ₃ COCH ₃ |
| 2. Aniline. | b. Contains a benzene ring |
| 3. Cyclohexane. | d. Is a product of catalytic hydrogenation of benzene |
| 4. Methanal | e. Is an aldehyde |
| 5. Ethanoic acid | a. Reacts with carbonates and the products are salt, carbon dioxide and H ₂ O |

(1. c. 2. b. 3. d. 4. e. 5. a.)

Proofs from Internet sources:

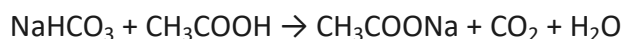
Acetone (systematically named propanone). [1]

Aniline is an organic compound with the formula C₆H₅NH₂. Consisting of a phenyl group attached to an amino group, aniline is the prototypical aromatic amine. [2]

On an industrial scale, cyclohexane is produced by hydrogenation of benzene. [3]

Formaldehyde (systematic name methanal) is a naturally occurring organic compound with the formula CH₂O (H-CHO). It is the simplest of the aldehydes(R-CHO). [4]

Metal acetates can also be prepared from acetic acid and an appropriate base, as in the popular "baking soda + vinegar" reaction [5]:



References:

- [1] <https://en.wikipedia.org/wiki/Acetone>
- [2] <https://en.wikipedia.org/wiki/Aniline>
- [3] <https://en.wikipedia.org/wiki/Cyclohexane>
- [4] <https://en.wikipedia.org/wiki/Formaldehyde>
- [5] https://en.wikipedia.org/wiki/Acetic_acid