

Organic Chemistry Interview Questions And Answers Guide.



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Organic Chemistry Job Interview Preparation Guide.

Question # 1

HOW WE CAN DIFFERENTIATE BETWEEN OXALIC ACID AND TARTARIC ACID?

Answer:-

By Fluorescein test ...
where tartaric acid " used in baking powder and found
in many food products
oxalic acid : harmful in contact with skin or eyes
toxic .remove Ca ions From blood and also block Kidneys
Fluorescein test depended on Light passes & usually in UV light

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Question # 2

Benzoic acid is a weaker than para nitro benzoic acid?

Answer:-

in p-nitrobenzoic acid due to -I effect of nitro group hydrogen present in acia become more electronegative and easily remove as proton and act like strong acid

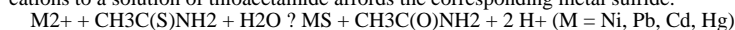
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Question # 3

Why are you using thioacetamide reagent in heavy metals test?

Answer:-

Thioacetamide is widely used in classical qualitative inorganic analysis as an in situ source for sulfide ions. Thus, treatment of aqueous solutions of many metal cations to a solution of thioacetamide affords the corresponding metal sulfide:



Related precipitations occur for sources of soft trivalent cations (As^{3+} , Sb^{3+} , Bi^{3+}) and monovalent cations (Ag^+ , Cu^+).

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Question # 4

What is difference between anti-aromatic and non-aromatic compounds?

Answer:-

Anti aromatic compounds follows $4n\pi$ electron rule and are cyclic compounds, planar, where as non aromatic are nonplanar or planar, cyclic or acyclic.

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Question # 5

How to synthesis toluene to benzaldehyde?

Answer:-

from directly reaction of toluene to cromyl chloride (CrO_2Cl_2) at room temp. to form benzaldehyde.

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Question # 6

Which organic compound is used as a fuel in jet air crafts?

- 100 octane
- 90 octane
- Kerosine oil
- Diesel oil

**Answer:-**

c. Kerosine oil

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Question # 7

How to make a 100ml solution with given 10gm of naoh?

Answer:-

Take 100ml water and pore 10gr NaOH pellets sterr with gently boil. NaOH sol ready

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Question # 8

What is the difference between an ion and a radical?

Answer:-

An ion is a specie that have no unpaired electron and is charged, either positively or negatively i.e. may be a cation or an anion. It is formed due to heterolysis of a molecule e.g $\text{HCl} \rightarrow \text{H}^+ + \text{Cl}^-$

A radical is a neutral specie having atleast one unpaired electron and is formed due to homolysis of a molecule e.g

$\text{H-H} \rightarrow \text{H}^* + \text{H}^*$

The * shows an unpaired electron. Similarly CH_3^* is a radical.

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Question # 9

What Mean By Organic Chemistry?

Answer:-

Organic Chemistry is a branch of Science, which deals study about carbon compounds except Carbon monoxide, Carbon di oxide and carbonates.

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Question # 10

What is the range of UV & vis lamp in spectrophotometer?

Answer:-

uv lamp range is 200 nm to 340 nm.

vis lamp range is 320 nm to 1100 nm.

both of lamp range is mfg instument company voice of record is enculd the data range in lamp is 200 nm to 1200 nm.

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Question # 11

Explain the term aliquot and diluent?

Answer:-

Aliquot: It is a measured sub-volume of the original sample

Diluent: Material with which sample is diluted

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Question # 12

Explain, using diagrams, the tetravalent bonding of carbon and its ability to bond with itself and other elements?

Answer:-

No Answer is Posted For this Question

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Question # 13

What is the difference between sulphated ash and ROI?

Answer:-

THERE NO DIFFERENCE BETWEEN PROCEDURE,BOTH ARE SAME.WE GENERALLY TERM IT AS SULPHATED ASH TEST/ROI.IN INDIAN PHARMACOEPIA,CALLED IT AS ROI AND IN USP,CALLED IT AS SULPHATED ASH TESH.BOTH ARE USED FOR THE DETERMINATION OF CONTENT OF INORGANIC MATTER IN AN ORGANIC SUBSTANCE.

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Question # 14

What is methane?

Answer:-

Methane is a gas, formula is CH_4 , it is organic molecule



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Question # 15

What is the difference between PVC and uPVC plastic?

Answer:-

PVC-POLYVINYL CHLORIDE AND uPVC IS THE Unplasticized polyvinyl chloride IT IS USED FOR building industry as a low-maintenance material.

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Question # 16

If tis below reaction does happaen means...,what is the end product.....? naphthal + toluene(or)benzene?

Answer:-

high molecular weight easily we can seperate koH

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Question # 17

If benzene and toluene both can be mixed... what is the boiling point for the mixture and its density?

Answer:-

If benzene and toluene mixed the boiling point will be ~ 90 0C. Density will not change.

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