

Organic Chemistry Job Interview Questions And Answers



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Organic Chemistry Interview Questions And Answers Guide.

Question - 1:

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

Ans:

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 - 2:

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

Ans:

uv lamp range is 200 nm to 340 nm.

vis lamp range is 320 nm to 1100 nm.

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

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Question - 3:

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

Ans:

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

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Question - 4:

Benzoic acid is a weaker than para nitro benzoic acid?

Ans:

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

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Question - 5:

What is the difference between sulphated ash and ROI?

Ans:

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 - 6:

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

Ans:

high molecular weight easily we can seperate KOH

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Question - 7:

What is the difference between PVC and uPVC plastic?



Ans:

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 - 8:

What Mean By Organic Chemistry?

Ans:

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

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Question - 9:

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

- a. 100 octane
- b. 90 octane
- c. Kerosine oil
- d. Diesel oil

Ans:

- c. Kerosine oil

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Question - 10:

What is the difference between an ion and a radical?

Ans:

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

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

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

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Question - 11:

How to synthesis toluene to benzaldehyde?

Ans:

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

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Question - 12:

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

Ans:

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

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Question - 13:

HOW WE CAN DIFFERENTIATE BETWEEN OXALIC ACID AND TARTARIC ACID?

Ans:

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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