

Name \_\_\_\_\_  
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## Properties of Ether Solubility and Lipids

Page 10

**Nonpolar**

• Lipids are nonpolar molecules.  
They have hydrocarbon chains  
but no polar groups.

**CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>**

Lipids consist of long hydrocarbon chains.  
Hydrocarbon chains are nonpolar.  
Therefore, lipids are nonpolar.

**Polar Nonpolar** When polar functional groups  
have hydrocarbon tails attached

**CH<sub>3</sub>CH<sub>2</sub>COOH**

This molecule has a polar carboxyl group  
but also has a long hydrocarbon tail.

**CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH**

This molecule has a polar carboxyl group  
but also has a long hydrocarbon tail.

**Nonpolar**

• Nonpolar molecules  
have nonpolar functional groups  
and no polar functional groups.

**CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>**

Alcohols are polar molecules.  
They contain oxygen atoms  
but they are nonpolar molecules.

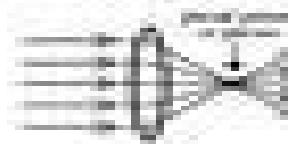
**CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH**

Ethers are polar molecules.  
They contain oxygen atoms  
but they are nonpolar molecules.

**Water**

Water does not dissolve lipids because water is  
a polar molecule while lipids are nonpolar.  
Water has the shared polar covalent bonds:

**shared polar  
covalent bonds**



**Nonpolar vs. Polar**

Lipids don't dissolve in polar solvents like water because  
lipids are nonpolar molecules that prefer nonpolar  
solvents. Fats are nonpolar molecules that prefer nonpolar  
solvents like oil. Water doesn't dissolve oil because

**water**



**Water vs. Oil**

Oil molecules are nonpolar  
and therefore not very soluble  
in water.

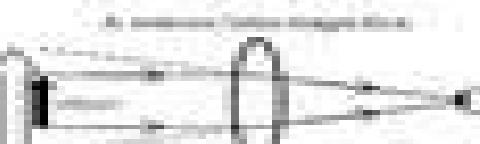
**Oil molecules**

Oil molecules are nonpolar  
and therefore not very soluble  
in water.

**Oil**

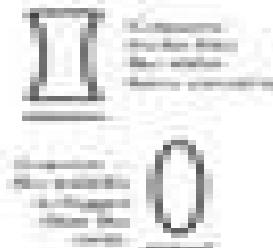
Oil molecules are nonpolar, so  
they don't dissolve in polar solvents.  
Therefore, oil is nonpolar.

**oil**



Lipids don't dissolve in polar solvents like water.  
Oil is nonpolar and therefore nonpolar solvents  
like oil dissolve oil.

### Chlorophyll & Lipids



Lipids don't dissolve in polar solvents, like water,  
because they are nonpolar molecules and therefore  
they are not very soluble in polar solvents.

For example, chlorophyll can dissolve in oil or hexane.  
These solvents are nonpolar.  
However, chlorophyll does not dissolve in water.

### Chlorophyll & Lipids

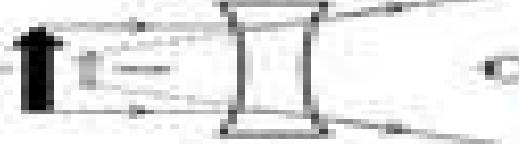


Chlorophyll doesn't dissolve in water.  
It dissolves in oil.

**Oil**

Oil molecules are nonpolar  
and therefore nonpolar solvents  
like oil dissolve oil.

**oil**



### Chlorophyll

Chlorophyll is a large  
molecule with many  
hydrocarbon chains.  
Therefore, chlorophyll  
is nonpolar and therefore  
it doesn't dissolve in polar  
solvents like water.



Chlorophyll doesn't dissolve in water.  
It dissolves in oil.

# Optics The Study Of Light Answer Key

**M Mark**

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Sabra,2024-12-11 Running through the articles in this volume is the theme of the appropriation and subsequent naturalization of Greek science by scholars in the world of medieval Islam The opening paper presents the historiography of this process and the focus is then placed on Ibn al Haytham one of the most original and influential figures of the 11th century and in particular in his contribution to the science of optics both mathematical and experimental and the psychology of vision Professor Sabra then continues the analysis of how Greek thought was developed in the Islamic world with two studies of work based on Euclid s geometry and two on critiques of Ptolemaic astronomy The final articles turn specifically to questions in the history of logic Aristotelian syllogism and Avicenna s views on the subject matter of logic     **IELTS Prep Plus** Kaplan Test Prep,2020-10-06 Kaplan s IELTS Prep Plus 2021 2022 provides in depth review test taking strategies and exam like practice for all four tests on the Academic and General Training IELTS exams Our comprehensive guide includes audio tracks to help you practice your listening skills videos of mock interviews so that you can see performance at different score bands and personalized data driven score reports to help you focus your study The Best Review Eight full length

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*Optics and Machine Vision for Marine Observation* Hong Song,Ran Liao,Rizwan Ali Naqvi,Surui Xie,2023-10-13

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