

How Substances Dissolve

KEY IDEAS

As you read this section, keep these questions in mind:

- Why is water called the universal solvent?
- How do substances dissolve?

Why Do Substances Dissolve in Certain Solvents?

Water is often called a universal solvent because many substances dissolve in it. However, no one substance can dissolve every solute. A general rule in chemistry is that “like dissolves like.” This rule means that a solvent will dissolve substances that have similar molecular structures. 

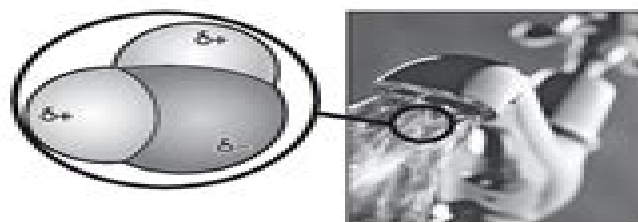
A solvent must be able to attract solute particles and pull them away from one another. Thus, solvent particles must attract solute particles more strongly than the solute particles attract one another.

POLAR MOLECULES

Recall that atoms bonded together do not all share electrons equally. For example, a water molecule is made up of two hydrogen atoms bonded to one oxygen atom. The oxygen atom attracts electrons more strongly than the hydrogen atoms do. Thus, the electrons spend more time near the oxygen atom. This gives each hydrogen atom a partial positive charge (δ^+) and the oxygen atom a partial negative charge (δ^-). 

Molecules that have partially charged positive and negative areas are **polar**. Because water molecules are polar, water can dissolve many other polar substances. Water can also dissolve ionic compounds such as table salt.

Water is a polar molecule because the oxygen atom strongly attracts electrons. Because the electrons spend more time near the oxygen atom, the oxygen atom has a partial negative charge.



READING TOOLBOX

Summarize Read each page of the section silently to yourself. With a partner, take turns summarizing each page.

READING CHECK

1. Identify Why is water called a universal solvent?

because
many substances dissolve
in it

READING CHECK

2. Explain Why does a water molecule have partial charges?

The oxygen atom attracts
electrons more strongly
than the hydrogen atoms
do. Thus, the electrons
spend more time near the
oxygen atom.

How Substances Dissolve Concept Review Answers

L Towne



How Substances Dissolve Concept Review Answers:

Unveiling the Magic of Words: A Overview of "**How Substances Dissolve Concept Review Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**How Substances Dissolve Concept Review Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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them came with a reverse cut high pinion electric locking differential

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web lineage toyota divided the land cruiser family into three series 15 the most basic version is the heavy duty series which
prioritizes functionality durability and off road capabilities over comfort or technology it is also characterised by flatter steel
body panels and a near vertical greenhouse

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web toyota tlc years available 1993 1997 body style four door wagon seating capacity eight drivetrain front engine 4x4
engine 4 5 liter dohc 24 valve inline 6 cyl fuel system electronic fuel injection horsepower 212 4600 rpm torque 275 ft lbs
3200 rpm transmission 4 speed automatic wheelbase 112 2 in length 189 8 in

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web dec 12 2022 for the 1991 model year the fj80 could barely break the speed limit in a quarter mile sprint yet in off road
sessions it was helped by its low range gear the all wheel drive system and the

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web oct 7 2020 it was powered by toyota s 4 0 liter 3f engine inherited from the fj62 model capable of producing 116 kw or
155 horsepower except for diesel variants it is typically found in 80 series vehicles built between 1990 and 1992 the fj80 was
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web the toyota land cruiser fzj80 was the successor to the fj80 in the 80 series gas powered lineup while body and features
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