

Does a solid take the volume of its container

Unlike solids, which maintain a fixed shape, and liquids, which have a fixed volume but take the shape of their container, gases are highly compressible and will adapt to the shape and space ...

The particles of a gas can pull apart from each other and spread out. As a result, a gas does not have a fixed shape or a fixed volume. In fact, a gas always spreads out to take up whatever space is available to it. If a gas is ...

Water has three states of matter: solid ice, liquid water and gaseous steam. The difference between each state is the arrangement of the particles. Particles in a solid... In a solid, particles are arranged in a fixed pattern, with ...

The solid is submerged in a liquid of known volume (typically water or a non-reactive solvent), and the increase in volume is measured. The volume of the solid is equal to the volume of liquid displaced. Procedure: A known ...

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However, they cannot pull apart and spread out to take the volume of their container, as particles of a gas can. If the volume of a liquid is less than the volume of its container, the top surface of the liquid will be exposed to the air, ...

What is sedimentation volume, and why is it important? Sedimentation volume refers to the volume occupied by the sediment (settled particles) in a suspension after a specific period of time. It is a crucial ...

Which state of matter takes both the shape and volume of its container? A) liquid B) solid C) gas. 13. The state of matter with no fixed shape or volume is a: a. solid b. liquid c. gas d. Shape ...

Volume and capacity are properties of three-dimensional objects. Volume is the space that a three-dimensional object occupies or contains; capacity, on the other hand, is the property of a container and describes how ...

This neat row of cola bottles represents matter in three different states-- solid, liquid, and gas. The bottles and caps are solids, the cola is a liquid, and carbon dioxide dissolved in the cola is a gas. It gives cola its fizz. Solids, ...

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Shape: Solids have a definite shape, and the pressure on the side of the solid, which is perpendicular to the weight vector, is always zero. In contrast, liquids take the shape of the ...



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