

Carbon Captured

The term “carbon capture” refers to trapping CO₂ from a reaction or the atmosphere. One C and two O’s have been “trapped” in the words below. Can you use the clues to fill in the rest of the letters?

1. Solar energy converter in plants: C _ _ _ O _ O _ _ _ _ _
2. Element 115: _ O _ C O _ _ _ _ _
3. Substance composed of two or more elements chemically bonded together:
C O _ _ _ O _ _ _ _
4. Na₂CO₃: _ O _ _ _ _ _ C _ _ _ _ O _ _ _ _ _
5. CuBr₂: C O _ _ _ _ _ (_ _ _) _ _ _ O _ _ _ _ _
6. 1s, 2p, 3d, 4f, etc.: _ _ _ O _ _ _ C O _ _ _ _ _ _ _ _
7. How Na and Cl are connected in salt: _ O _ _ _ C _ _ O _ _ _
8. Exothermic reaction that converts fuels into carbon dioxide and water:
C O _ _ _ _ _ _ _ O _ _
9. Tiny cylinders of element 6: C _ _ _ _ O _ _ _ _ _ O _ _ _ _ _
10. Main component of glass: _ _ _ _ _ C O _ _ _ _ O _ _ _ _ _
11. Common salt substitute: _ O _ _ _ _ _ _ _ C _ _ O _ _ _ _ _
12. Separation technique involving mobile and stationary phases:
C _ _ _ O _ _ _ _ O _ _ _ _ _ _ _
13. Ethanol, for example: _ _ _ C O _ _ O _ _
14. Scale good to 0.01 g: _ O _ _ - _ _ O _ _ _ _ _ _ _ _ C _ _
15. Like a molecule comprised of both carbon and iron or gold atoms:
O _ _ _ _ _ O _ _ _ _ _ _ _ C

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SOLUTION

The term “carbon capture” refers to trapping CO₂ from a reaction or the atmosphere. One C and two O’s have been “trapped” in the words below. Can you use the clues to fill in the rest of the letters?

1. Solar energy converter in plants: **Chlorophyll**
2. Element 115: **Moscovium**
3. Substance composed of two or more elements chemically bonded together:

Compound

4. Na₂CO₃: **Sodium carbonate**
5. CuBr₂: **Copper(II) bromide**
6. 1s, 2p, 3d, 4f, etc.: **Atomic orbitals**
7. How Na and Cl are connected in salt: **Ionic bond**
8. Exothermic reaction that converts fuels into carbon dioxide and water:

Combustion

9. Tiny cylinders of element 6: **Carbon nanotubes**
10. Main component of glass: **Silicon dioxide**
11. Common salt substitute: **Potassium chloride**
12. Separation technique involving mobile and stationary phases: **Chromatography**
13. Ethanol, for example: **Alcohol**
14. Scale good to 0.01 g: **Top-loading balance**
15. Like a molecule comprised of both carbon and iron or gold atoms:

Organometallic