

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 ___ CO _____
3. Substance composed of two or more elements chemically bonded together:
CO ___ O _____
4. Na₂CO₃: ___ O _____ C _____ O _____
5. CuBr₂: CO _____ (___) ___ 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:
CO _____ O ___
9. Tiny cylinders of element 6: C ___ O ___ O _____ O _____
10. Main component of glass: _____ CO ___ O _____
11. Common salt substitute: ___ O _____ C ___ O _____
12. Separation technique involving mobile and stationary phases:
C ___ O ___ O _____
13. Ethanol, for example: ___ CO ___ 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