

A single carbon atom can form a maximum of how many single covalent bonds

Answer 1

Answer:

A **single carbon atom** can form a maximum of 4 single **covalent** bonds.

Why can the carbon atom form this ?

This is because carbon has 4 **valence electrons**, which are electrons that are available to form bonds with other atoms. Each single covalent bond consists of 2 valence electrons, so a single carbon atom can form a maximum of 4 single covalent bonds.

Carbon atoms can also form **double** and **triple** covalent bonds, which consist of 4 and 6 valence electrons, respectively. However, a single carbon atom can only form a maximum of 4 covalent bonds in total.

Find out more on **covalent bonds** at brainly.com/question/12732708

#SPJ6

Answer 2

Answer:

I think it is carbon atom can form a maximum of 4 single covalent bonds... This is because it has 4 electrons and needs to reach a total of 8, so it can make up to 4 covalent bonds to gain the electrons it needs. I wish it help. Please comment

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