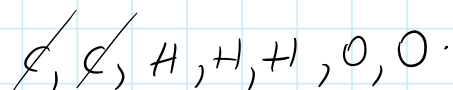


$$C_2H_3O_2^- \quad T = 2(4) + 3(1) + 2(6) + 1 =$$

$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ C & H & O \end{array}$
 $\nearrow$ the charge.

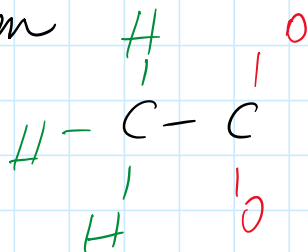
$$= 8 + 3 + 12 + 1 = 24 e^-$$

C goes in the middle (most bonds)



$$T = 24 - 2 = 22^-$$

The formula indicates the H₃-s stay together & so do the Oxygens, so we'll make an exception from the algorithm

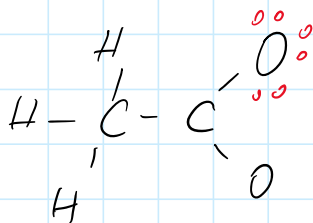


$$T = 22 - 2(5)$$

$$T = 22 - 10 = 12$$

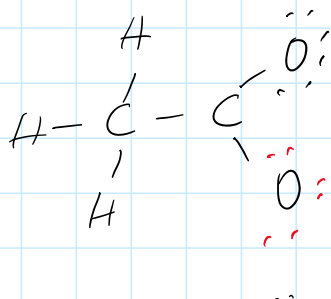
no more atoms left.

O needs 8 e⁻



$$T = 12 - 6 = 6.$$

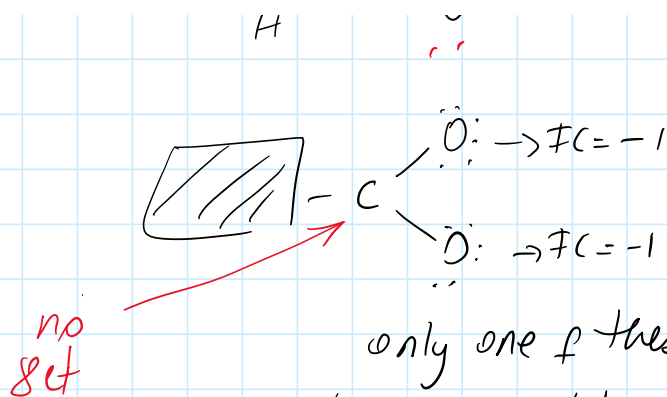
O ~
6



$$T = 6 - 6 = 0.$$

no more e⁻s.

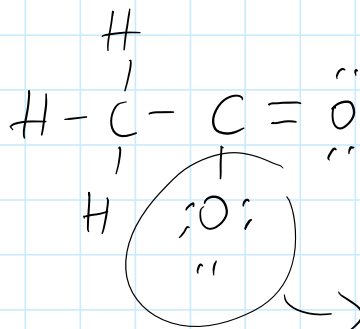
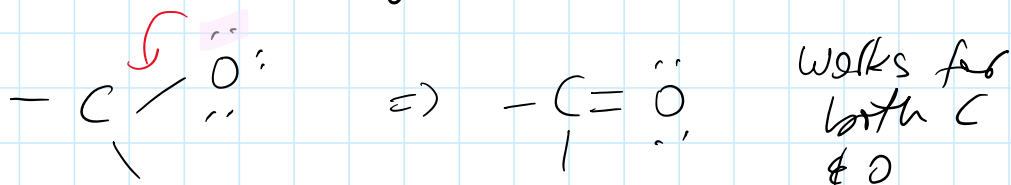
— $\overset{\cdot\cdot}{\underset{\cdot\cdot}{O}}:$ arrangements have
an FC = -1.



$-\text{O}:$ arrangements hv
 an $\text{FC} = -1$
 & are not favorable,
 however $=\ddot{\text{O}}:$ are.
 $\text{FC} = 6 - 6 = 0$

only one of these could
 be acceptable (the molecule is charged by -1)

this can be fixed by sharing one more bond w/ the C.



the only FC to be $-1 \Rightarrow$ the
 charge
 of
 the
 molecule

