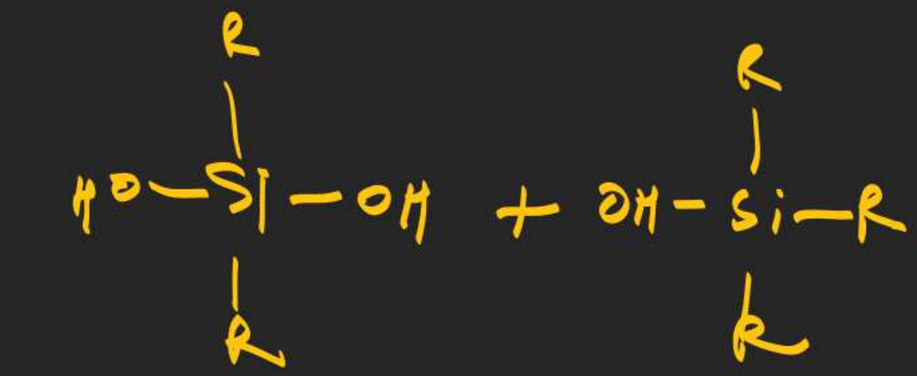
Prep of silicone

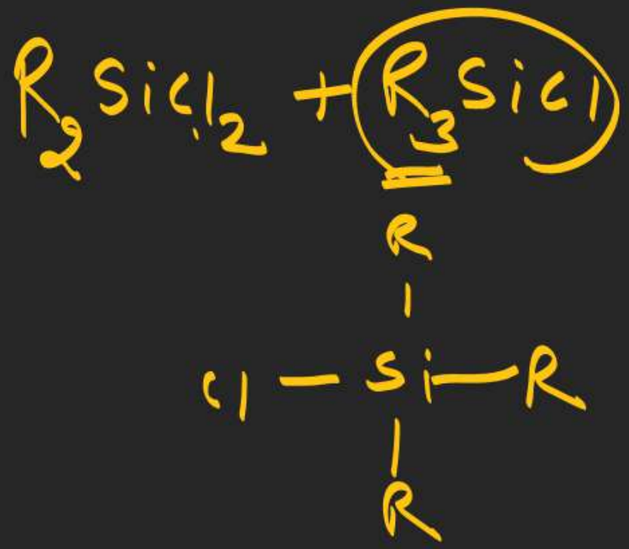
$$CH_3Cl + Si \xrightarrow[573\,K]{Cu} (CH_3)_2SiCl_2$$

Qu Which of the following molecule can act as Chain stoping unit for silicones.

(1) R_2SiCl_2 (2) $RSiCl_3$

(3) R_3SiCl (4) $SiCl_4$



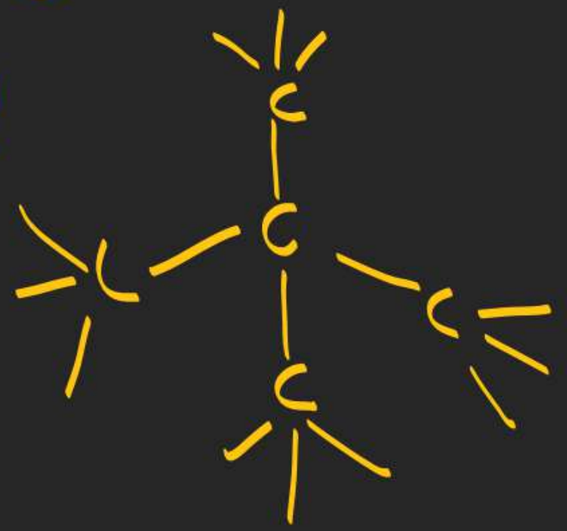


Nishant Jindal

allotrop. of C

- Diamond
- graphite
- fullerene

(i) Diamond



sp3
tet
nonplanar
nonConductor

Nishant Jindal

graphite

(T/F)

our non metallic covalent bond is present within layer of graphite (T)

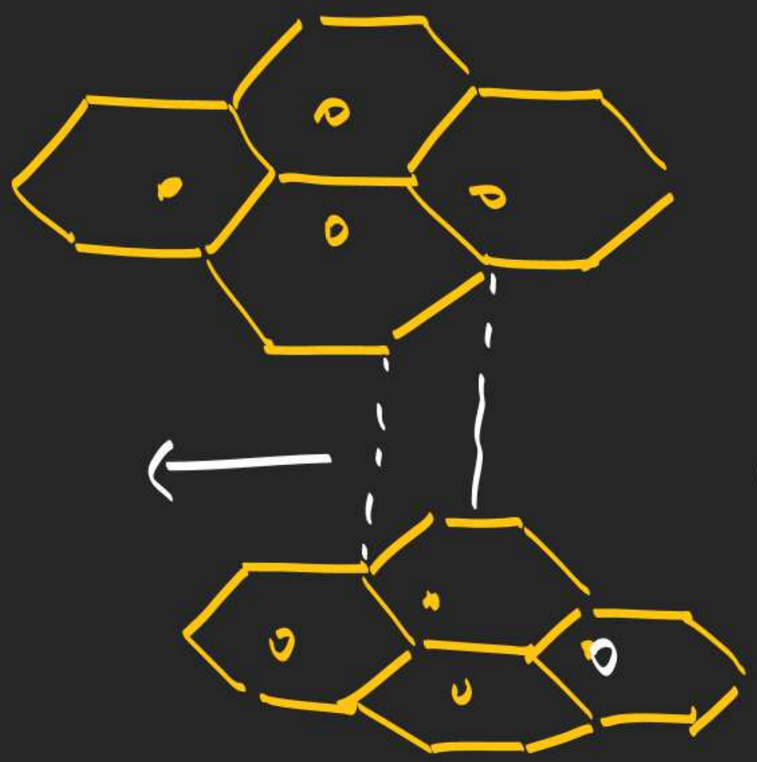
sp^2

planar

aromatic

Conductor

Hexagonal planar 2D sheet like structure.



(Vander Waal's force) V.W.F

C_{60} ⇒

sp^2

aromatic

20 Hexagonal Rings

12 - five memb. Rings [fix]

(Pentagonal Rings)

Each Hexagonal Rings fused with Pentagonal and Hexagonal.

and each Pentagonal Rings fused with only Hexagonal.

Fullerene has no dangling bond.

Find the no of Hexagonal Rings in C_{80}

$$\frac{q}{2} = n + 10$$

$$\frac{80}{2} = n + 10$$

$$n = 30$$

q = total no of carbon

n = Hexagonal Ring