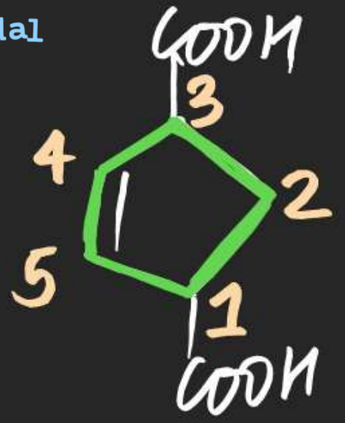
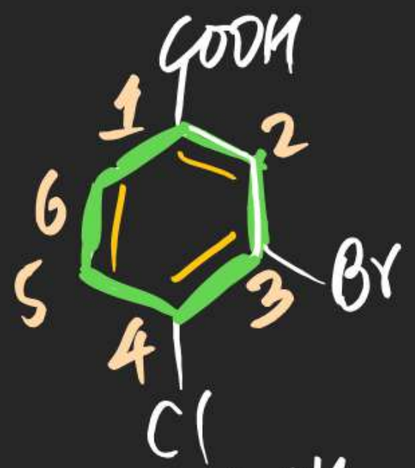
Nishant Jindal

(90)



CycloPent-4-ene
-1,3-Di Carboxylic Acid

(91)



3-Bromo-4-chloro
Benzene Carboxylic Acid

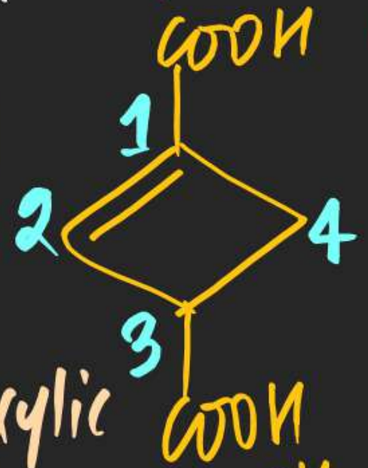
(92)

Benzene-1,2,4-Tri Carboxylic
Acid

(93)

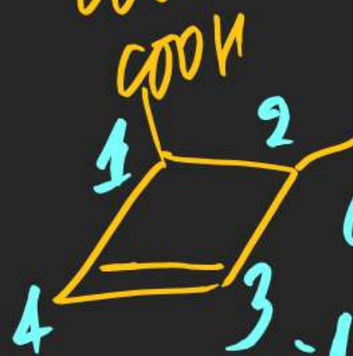
Cyclopropane-1,1,2,3-Tetra
Carboxylic Acid

(94)



CycloBut-1-ene
-1,3-di Carboxylic
Acid

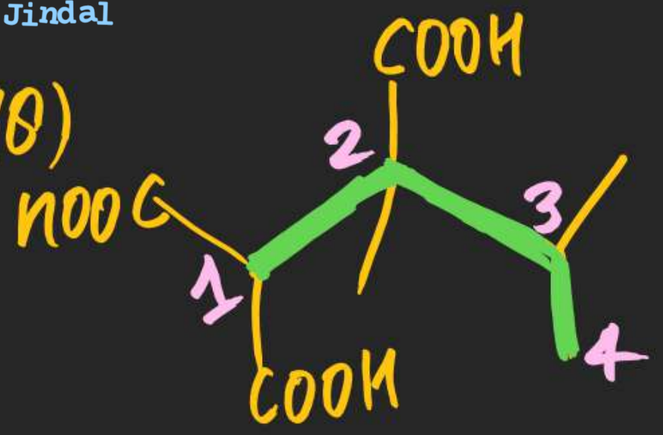
(95)



CycloBut-3-ene
-1,2-di Carboxylic
Acid

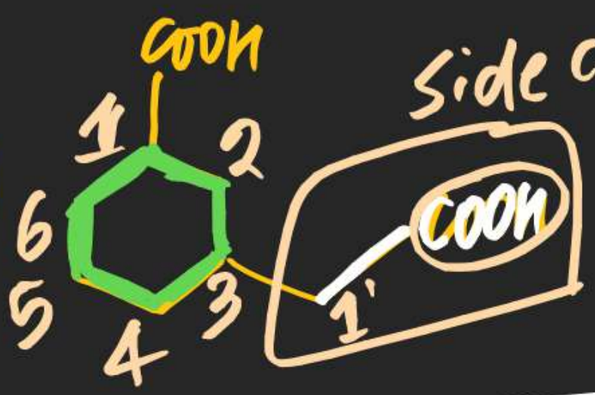
Nishant Jindal

(98)



2,3-Dimethyl Butane-1,1,2-Tri Carboxylic Acid

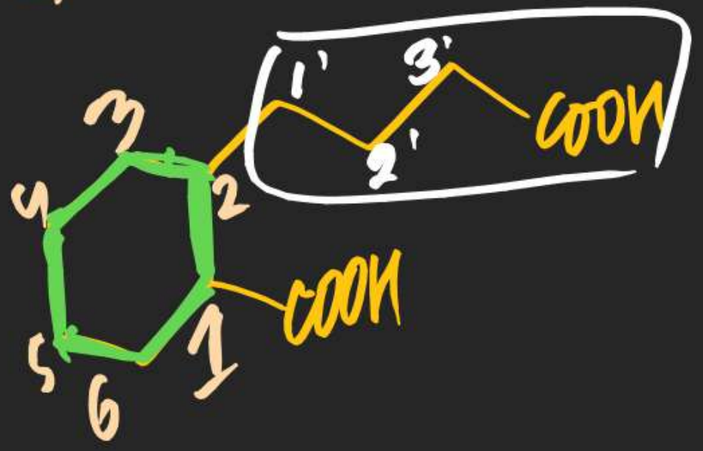
(99)



Side chain 3-Carboxymethyl Cyclohexane Carboxylic Acid.

2-[3'-Carboxy Propyl] Cyclohexane Carboxylic Acid.

(100)



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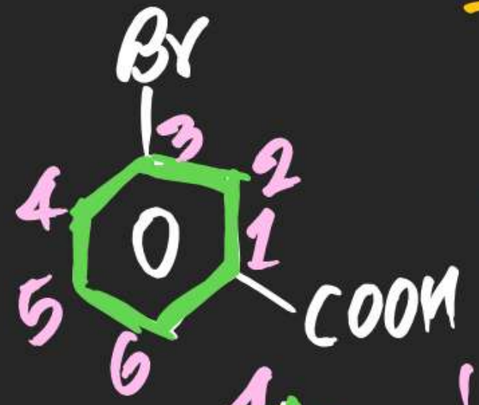
Note :

[1° Prefix + Wt. R + 1° Suffix]

Benzene Ring ⟹ Principal chain ⇓ Benzene

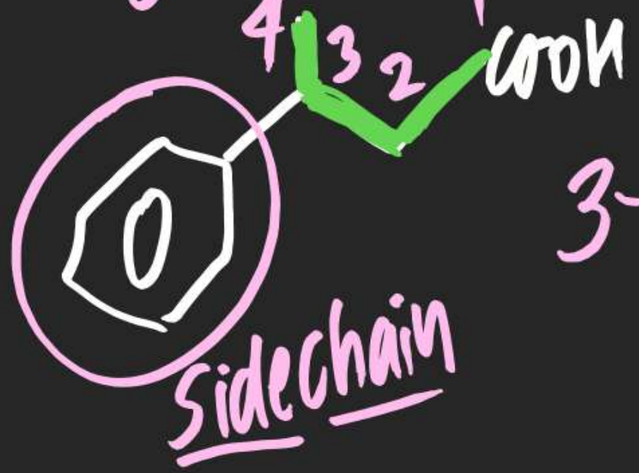
⟹ Side chain ⇓ 2° Prefix ⇓ Phenyl (Ph)

(101)



3-Bromo Benzene Carboxylic Acid

(102)



3-Phenyl Butanoic Acid

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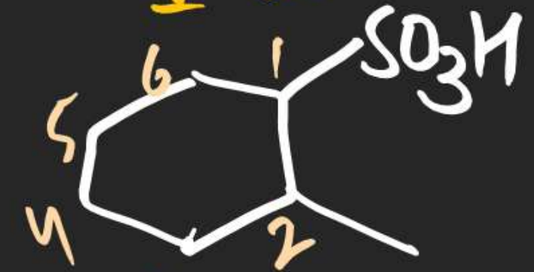
(#) Sulphonic Acid:-

$-SO_3H$ Suffix (Sulphonic Acid)

(103) $H_3C-CH_2-SO_3H$ Ethane Sulphonic Acid

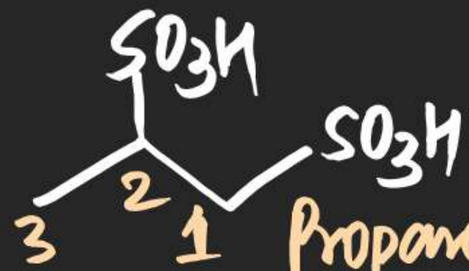
(104) $H_3C-\underset{2}{CH}(SO_3H)-\underset{3}{CH_2}-\underset{4}{CH_3}$ Butane-2-Sulphonic Acid

(105) 

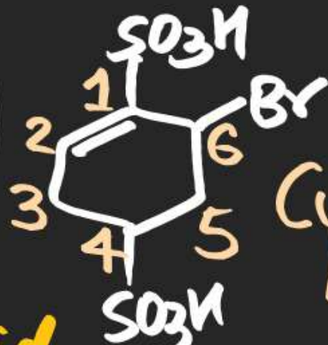
2-Methyl Cyclohexane Sulphonic Acid

(106) 

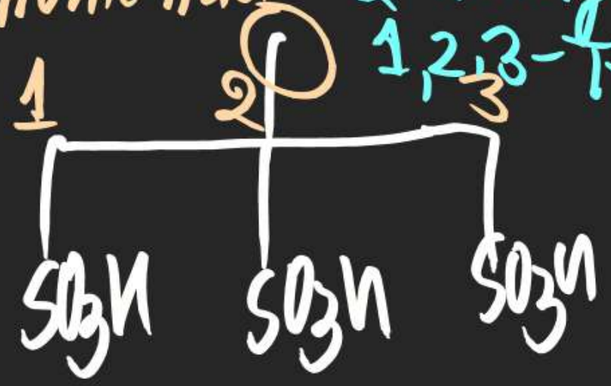
3-Bromo Benzene Sulphonic Acid

(107) 

Propane-1,2-di Sulphonic Acid

(108) 

6-Bromo Cyclohex-1-ene 1,4-di Sulphonic Acid

(109) 

2-Methyl Propane 1,2,3-Tri Sulphonic Acid

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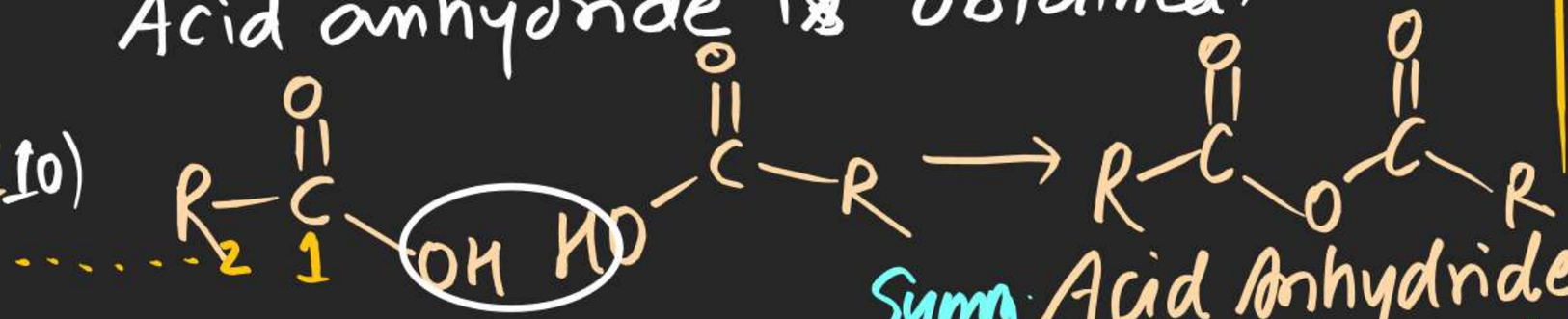
(#) Acid Anhydride :

⟹ when Acid gets dehydrated Acid anhydride is obtained.

(3) $H_2SO_4 \longrightarrow H_2O + SO_3$

(4) $2H_3PO_4 \longrightarrow 3H_2O + P_2O_5$

(110)



Alkanoic Acid

Sym. Acid Anhydride

Alkanoic anhydride

(111)

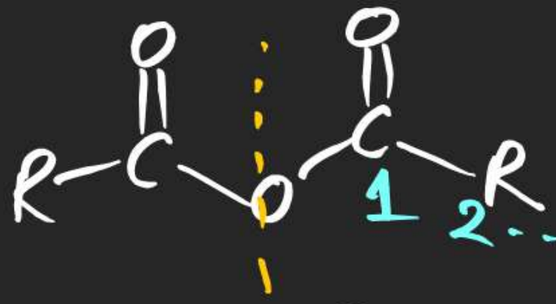
Alkanoic Acid (Alkanoic)' Acid

Unsym. Acid Anhydride

Alkanoic (Alkanoic)' anhydride

Nishant Jindal

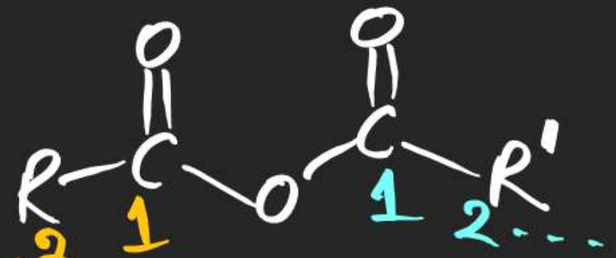
(112)



Alkanoic An hydride

WR

(113)



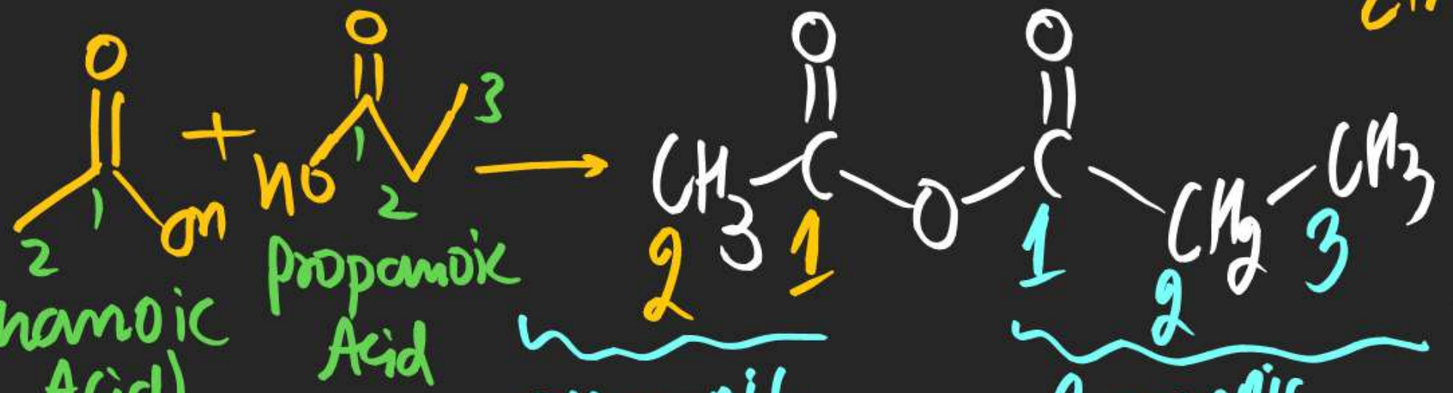
(Alkanoic)(Alkanoic)' An hydride

(114)

Ethanoic an hydride

Ethanoic Propanoic an hydride

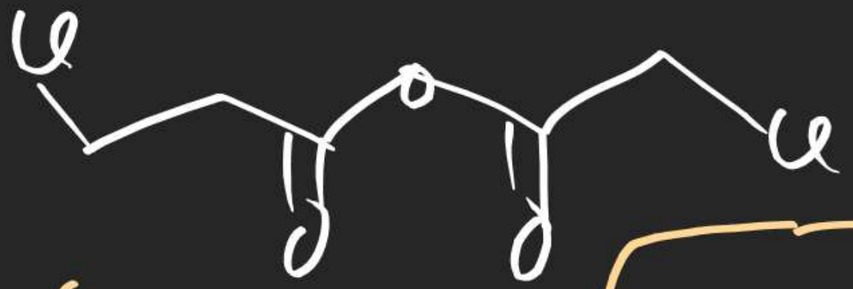
(115)



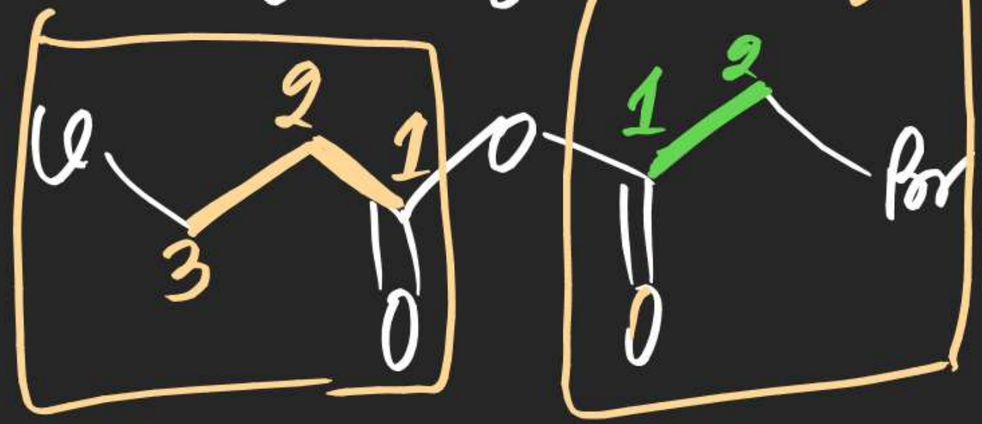
Nishant Jindal

(116)

(117)



(118)



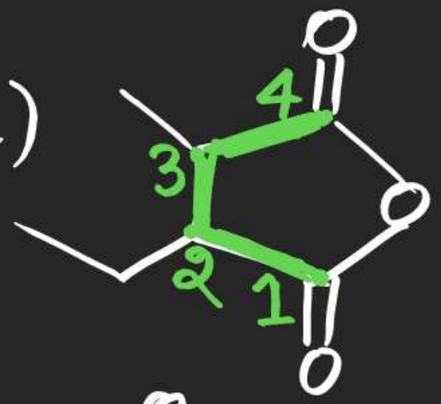
(2-Bromo Ethanoic)
(3-Chloro Propanoic) anhydride

3-Chloro

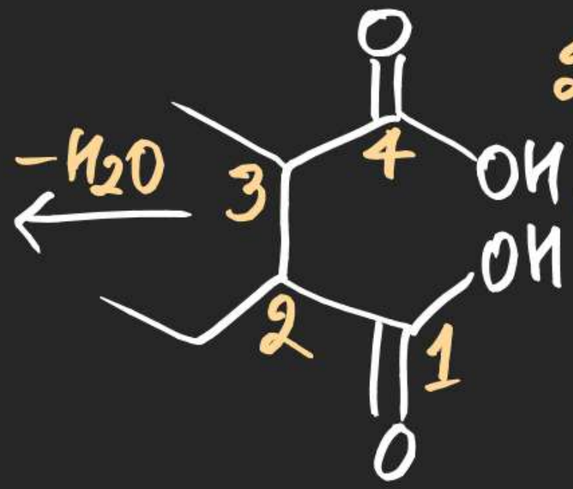
(119)

(120)

(121)



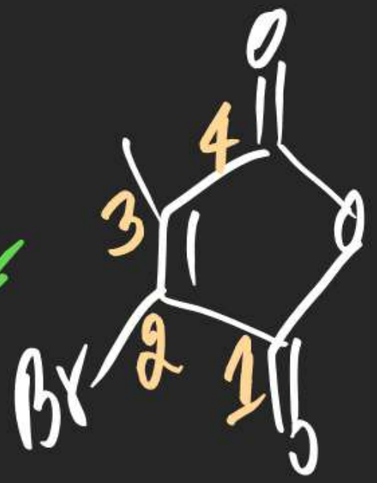
$-H_2O$



2-Ethyl-3-Methyl Butan-1,4-dioic anhydride

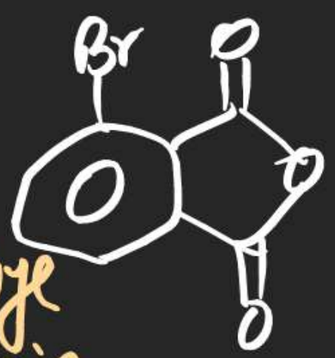
(122)

(123)

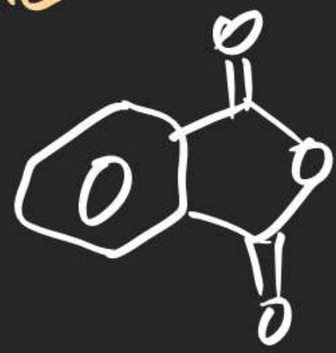


2-Bromo-3-methyl But-2-en dioic anhydride

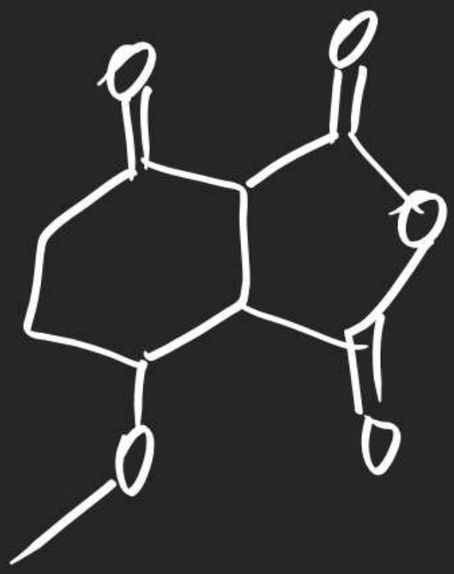
(124)



(125)



(126)



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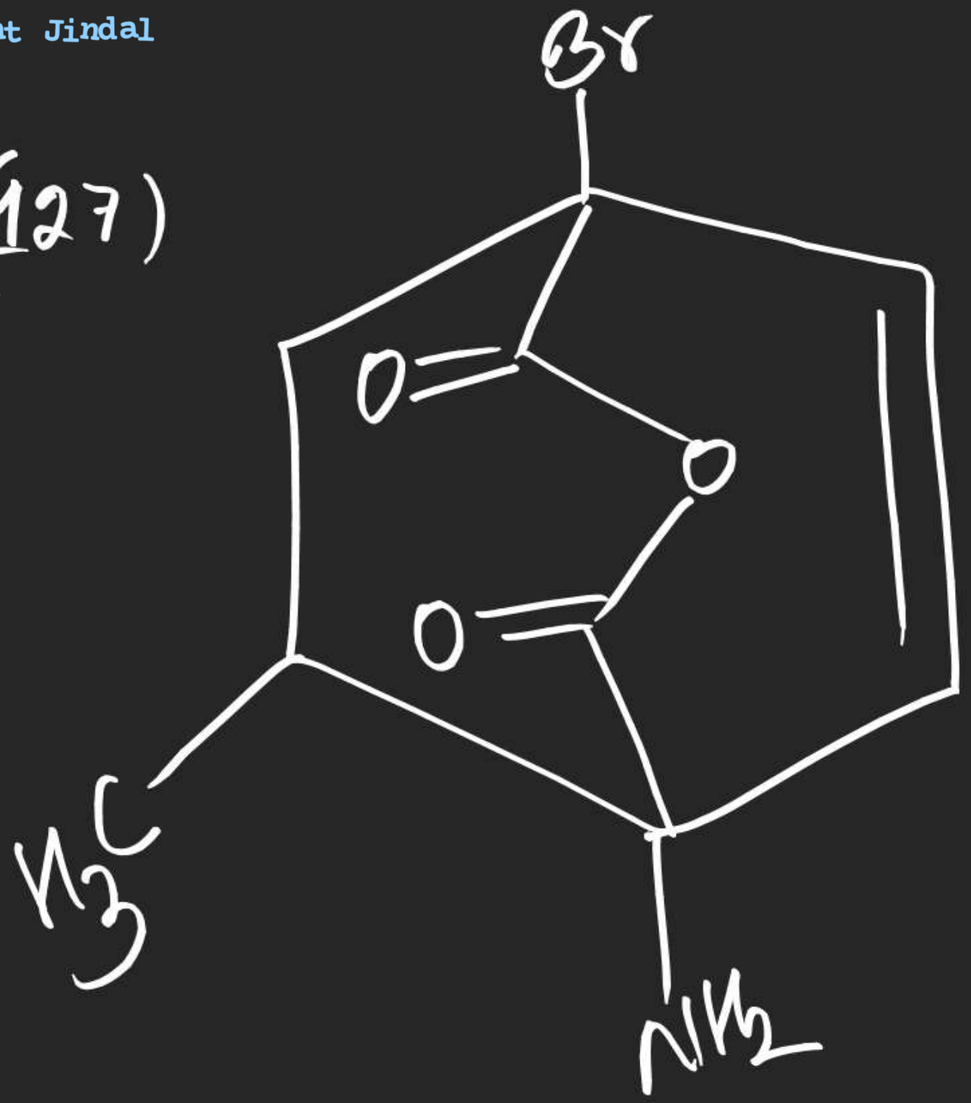
(127)



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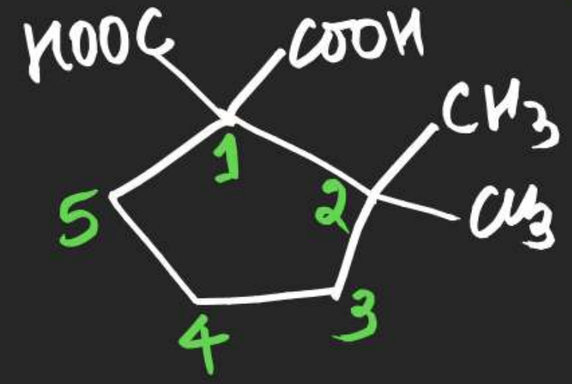
(128) Find $(x+y+z+w)_{min}$ = ? For Compound with correct IUPAC name.

x, y - Di Methyl Cyclopentane - z, w - di Carboxylic Acid

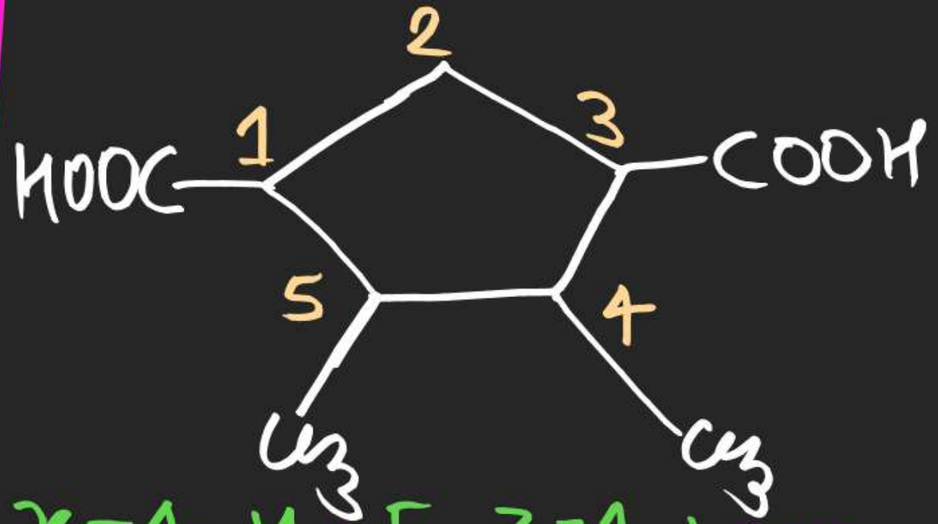
Soln:



$x=2, y=2, z=1, w=1$

$\Rightarrow (x+y+z+w)_{min} = 6$

(129) Solve 128 for $(x+y+z+w)_{max}$



$x=4, y=5, z=1, w=3$

$(x+y+z+w)_{max} = 13$

(130) P-Bromo-Q-Chloro Cyclohex-γ-ene

(a) $(P+Q+R)_{min} = ?$

(b) $(P+Q+R)_{max} = ?$

(131) Find all Compounds with IUPAC name
P-methyl-Q-chloro pent-R-yne
& also calculate $(P+Q+R)_{min}$ & $(P+Q+R)_{max}$.

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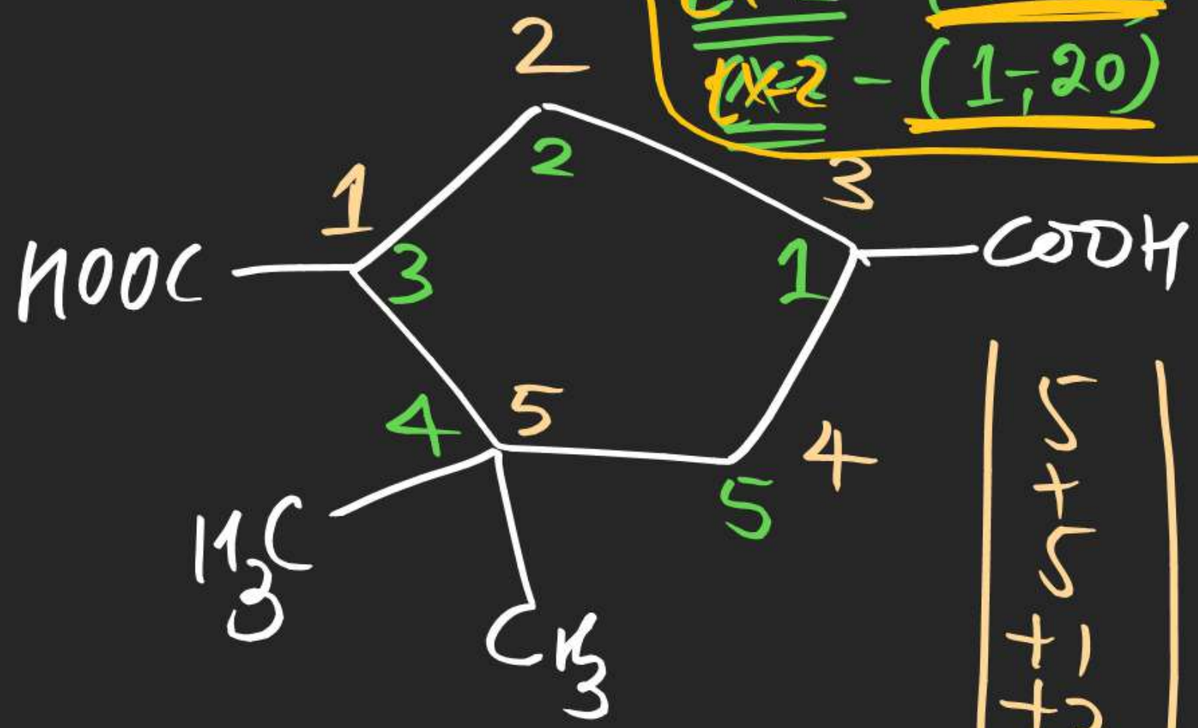
HW Nomenclature! Sheet

Ex-1 - (1-30)

Ex-2 - (1-20)



4
+4
+1
+3
12

5+5+1+3
14

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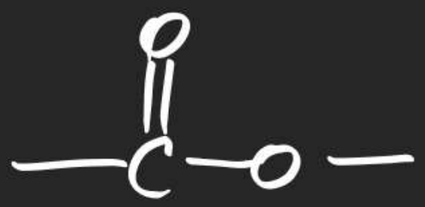
(#) Naming of Esters:-



Prefix

Suffix