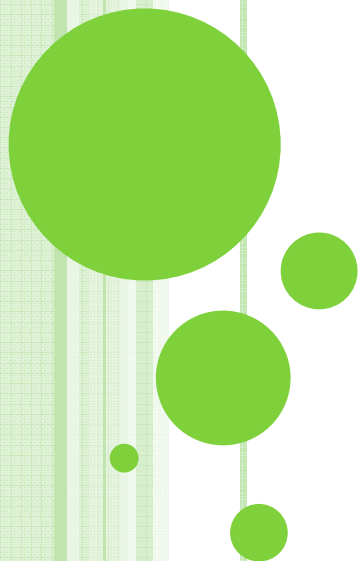


QUÍMICA ORGÂNICA

AULA 3



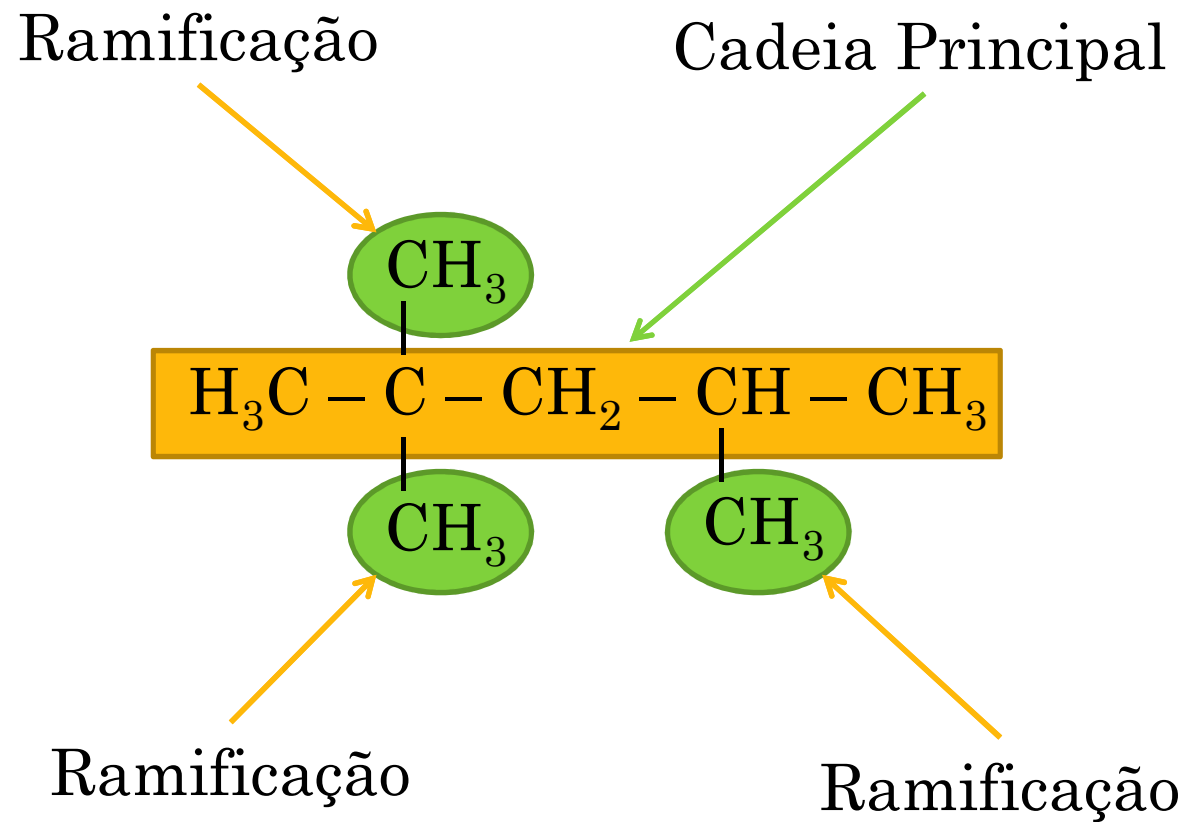
RELEMBRANDO...



Pentano



HIDROCARBONETOS RAMIFICADOS



PRINCIPAIS GRUPOS ORGÂNICOS



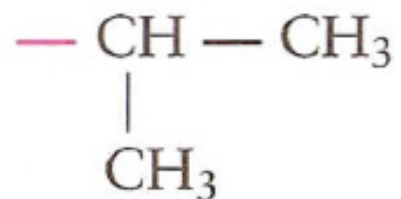
Metil



Etil



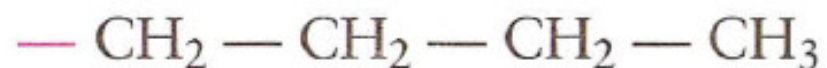
Propil



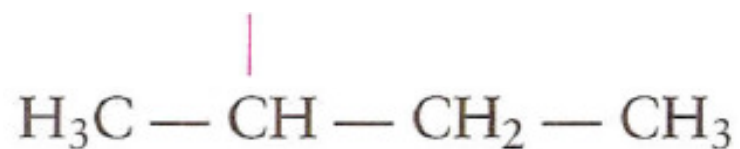
Isopropil



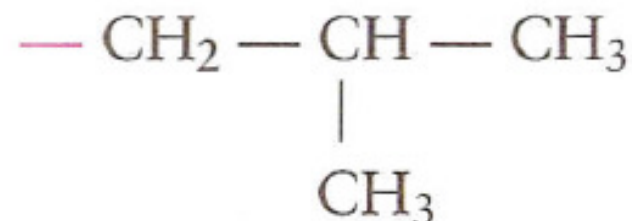
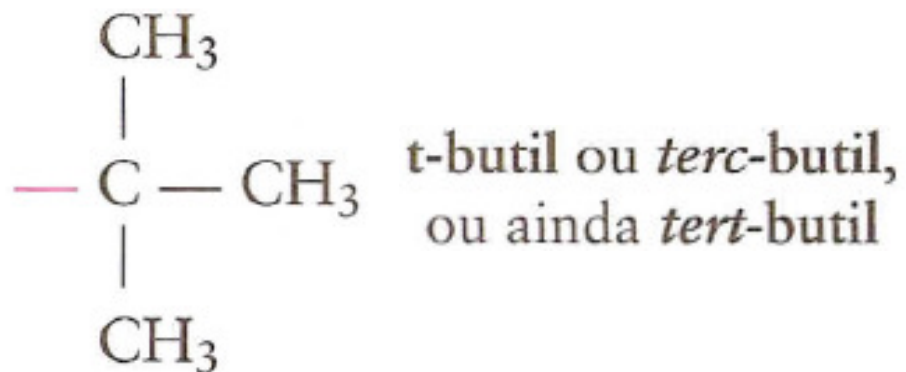
PRINCIPAIS GRUPOS ORGÂNICOS



Butil



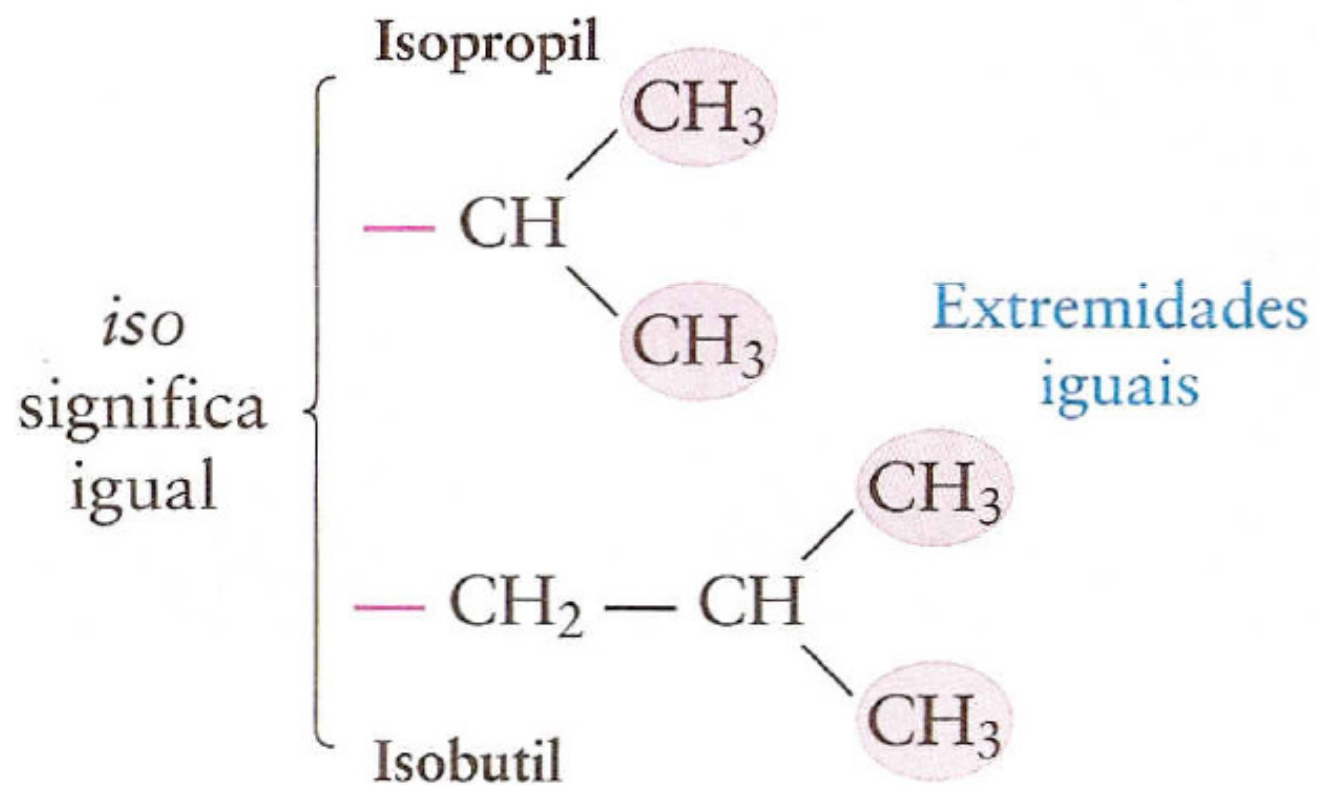
s-butil
ou *sec*-butil



Isobutil



PRINCIPAIS GRUPOS ORGÂNICOS



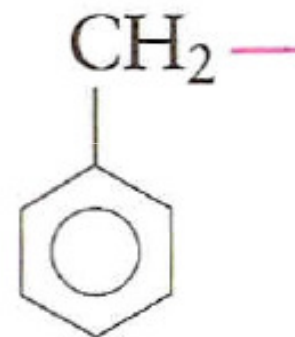
PRINCIPAIS GRUPOS ORGÂNICOS



Vinil



Fenil



Benzil



CONCEITO DE CADEIA PRINCIPAL

- Maior sequência de carbonos que possui as insaturações (se existirem);
- Deve possuir a função orgânica;
- Cadeia com o maior número de ramificações.



NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS

○ Segue a seguinte ordem:

1 – encontre a cadeia principal;

2 – numerar a cadeia;

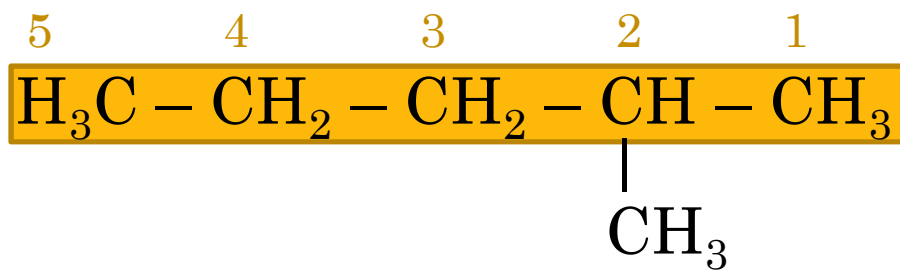
Preferência: ramificação < insaturação

3 – escrever o número e o nome correspondente de cada grupo orgânico, em ordem alfabética. Incluir os prefixos di, tri, tetra, penta etc, estes e o prefixo iso, devem ser ignorados com relação a ordem alfabética.

4 – Escrever o hidrocarboneto correspondente a cadeia principal.



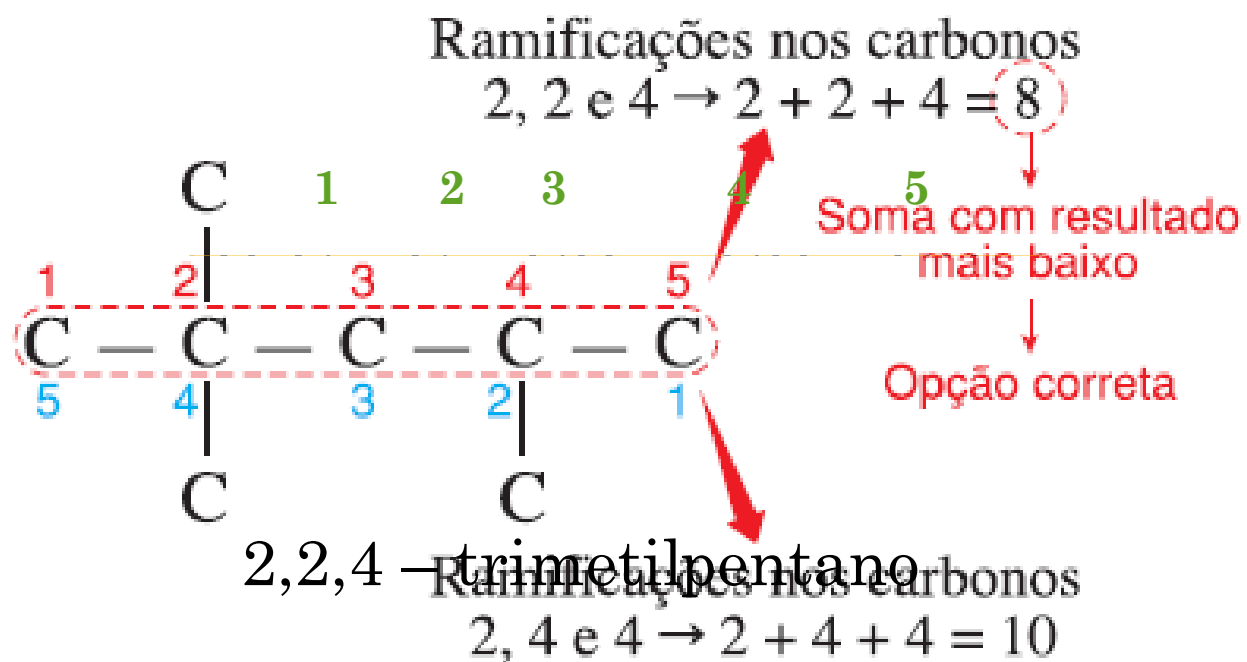
NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS



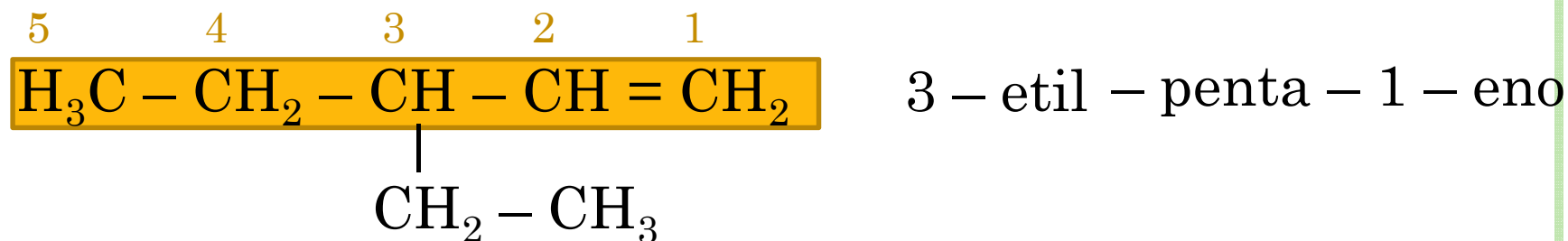
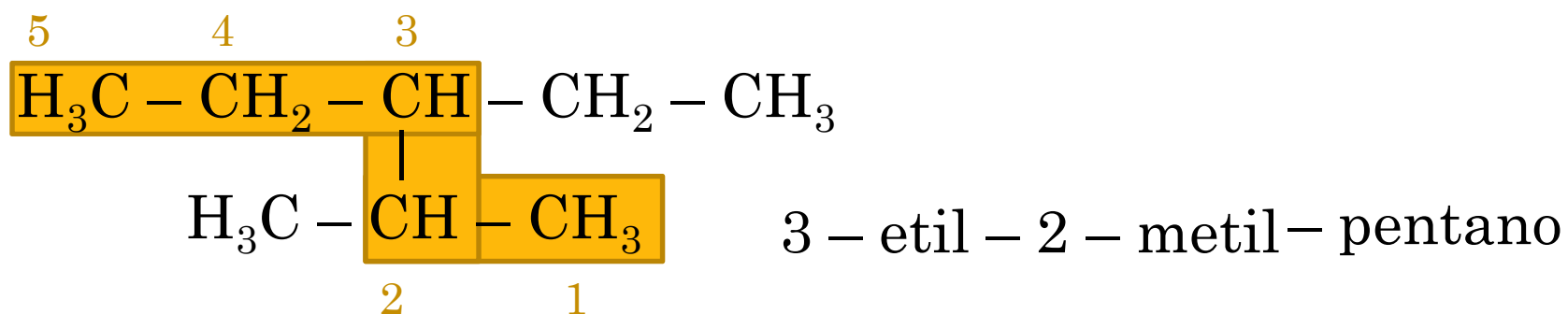
2 – metil – pentano



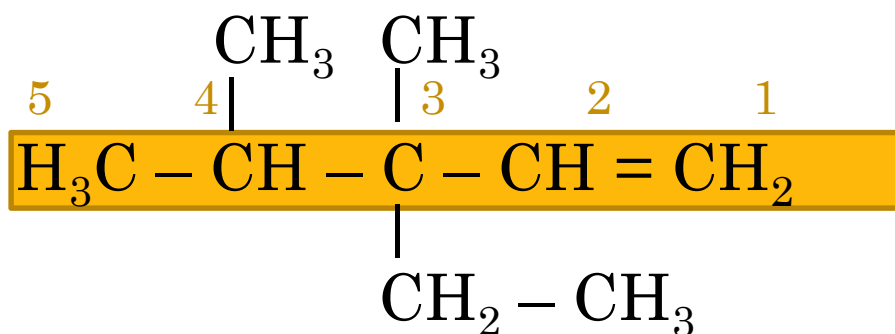
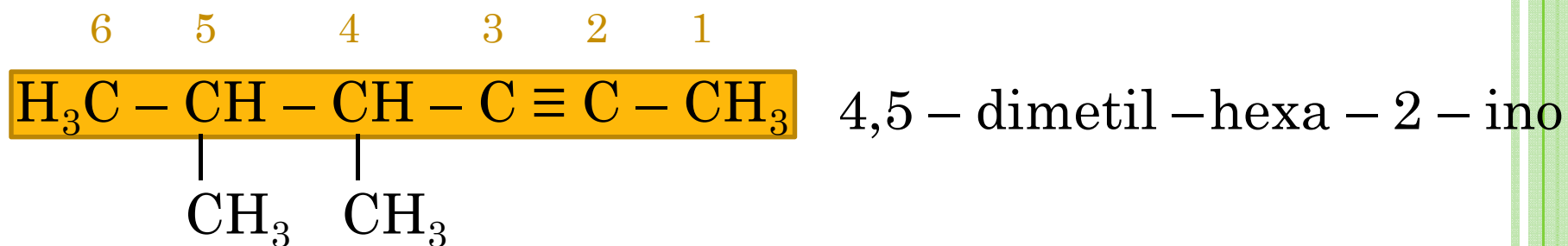
NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS



NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS



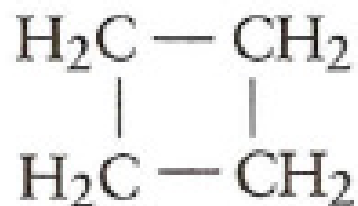
NOMENCLATURA DE HIDROCARBONETOS RAMIFICADOS



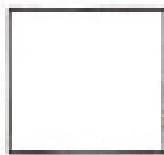
3 – etil – 3,4 – dimetil – penta – 1 – eno



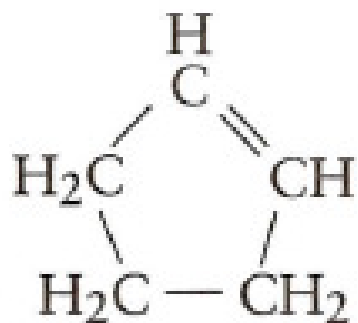
NOMENCLATURA DE HIDROCARBONETOS CÍCLICOS



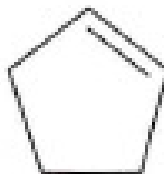
ou



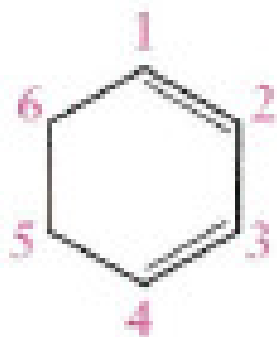
Ciclobutano



ou



Ciclopenteno



Ciclo – hexa – 1,3 – dieno

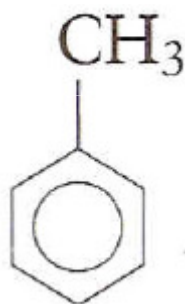


NOMENCLATURA DE HIDROCARBONETOS DE CADEIA MISTA

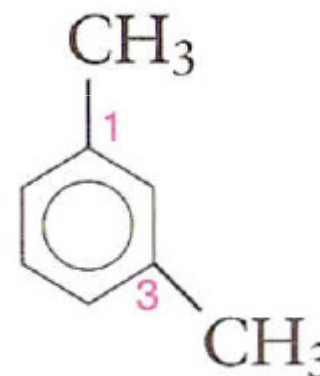
- Para cadeias mistas a cadeia principal sempre é a parte cíclica, exceto para anéis benzênicos



Metil-ciclo-pentano



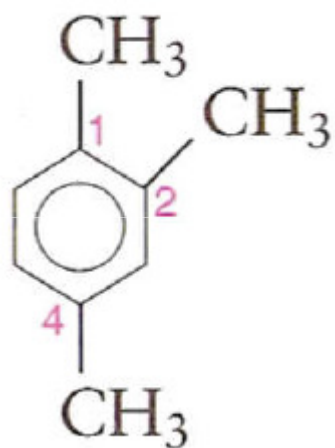
Metil-benzeno



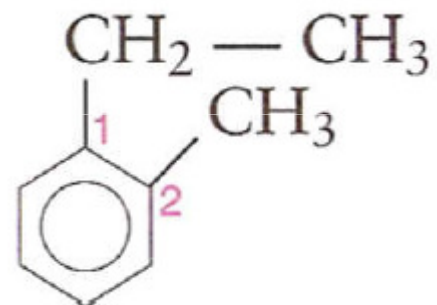
1, 3-dimetil-benzeno



NOMENCLATURA DE HIDROCARBONETOS DE CADEIA MISTA



1, 2, 4-trimetil-benzeno



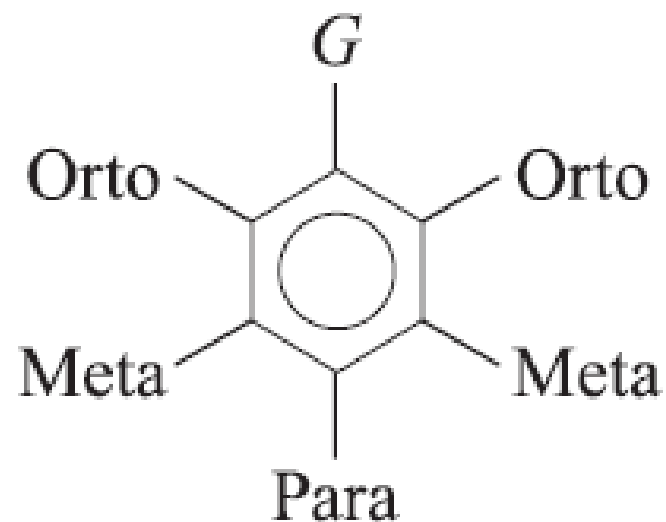
1-etil-2metil-benzeno



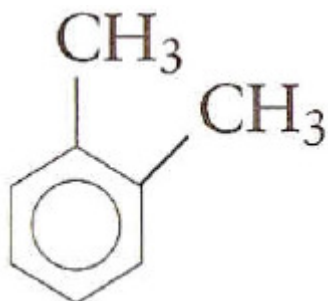
NOMENCLATURA DE HIDROCARBONETOS DE CADEIA MISTA

- Uso dos prefixos orto, meta, para;
- Somente para anéis benzênicos com dois grupos ligados a ele;

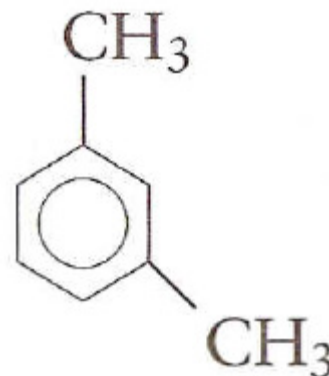
- Orto indica posição 1,2;
- Meta indica posição 1,3;
- Para indica posição 1,4.



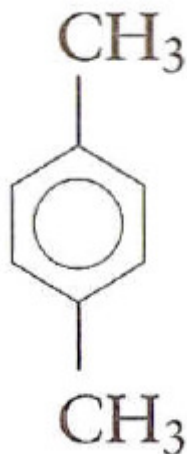
NOMENCLATURA DE HIDROCARBONETOS DE CADEIA MISTA



1,2 – dimetil – benzeno
orto – dimetil – benzeno



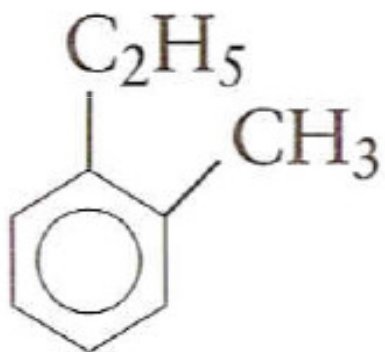
1,3 – dimetil – benzeno
meta – dimetil – benzeno



1,4 – dimetil – benzeno
para – dimetil – benzeno



NOMENCLATURA DE HIDROCARBONETOS DE CADEIA MISTA



1 – etil – 2 – metil – benzeno

Orto – etil – metil – benzeno

