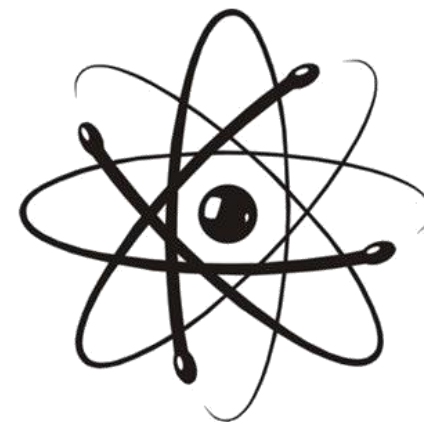


Hidrocarbonetos de Cadeia Ramificada

Prof. Francis Isotton
Química



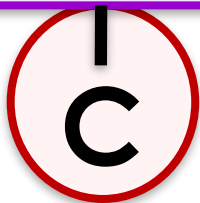
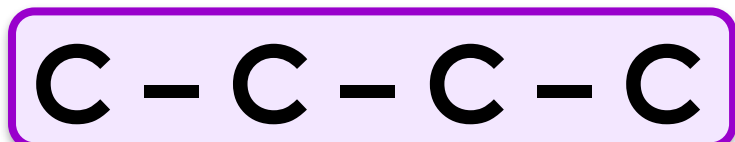
HC Ramificados

Ramificações/Radicais



Butano

Cadeia normal



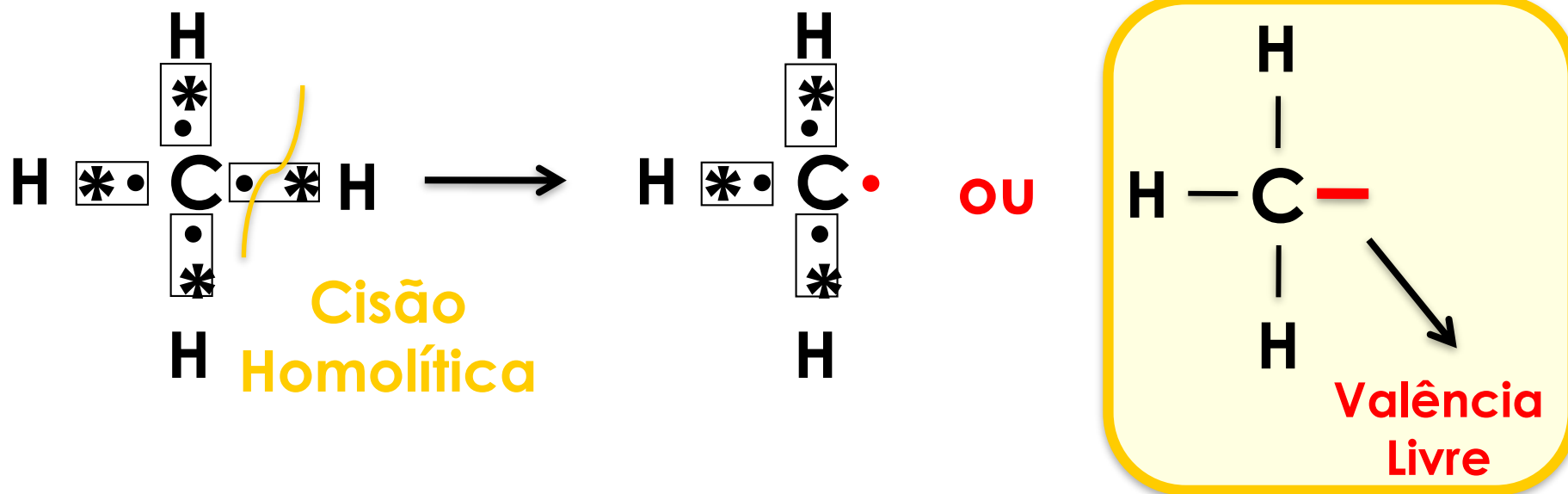
2 metil Butano

Cadeia ramificada

Acha a cadeia principal e o que sobra é radical

HC Ramificados

São denominados **radicais livres** quaisquer espécies químicas que apresentam **pelo menos um elétron**, não-compartilhado, na camada de valência.



HC Ramificados

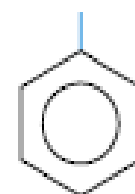
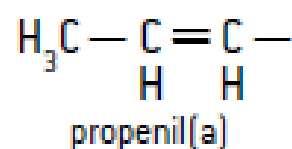
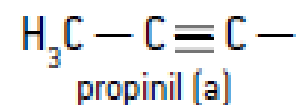
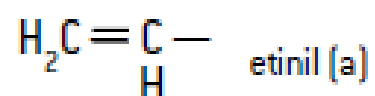
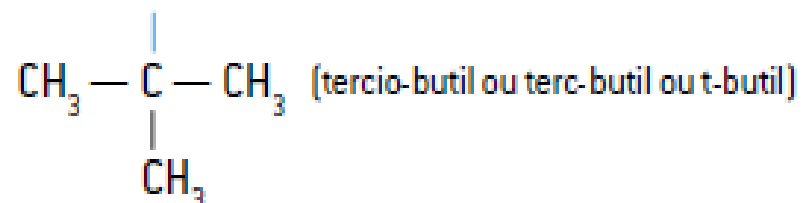
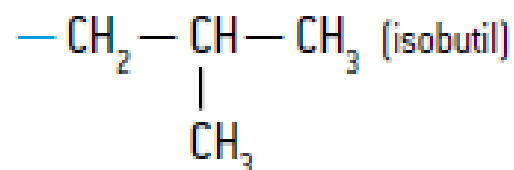
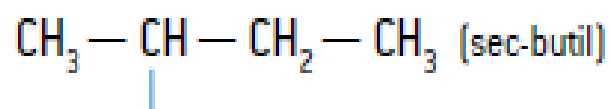
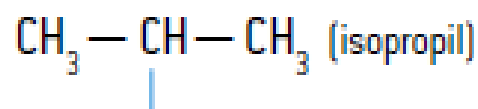
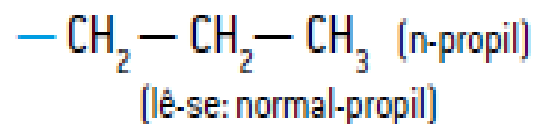
Nomenclatura dos radicais orgânicos alquilas ou alcoílas:

São os radicais orgânicos que possuem a valência livre em carbono saturado.

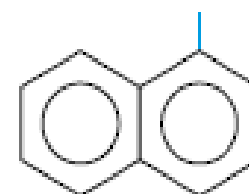
Raiz + meio + il ou ila

Raiz + ~~an~~, en, in + il ou ila

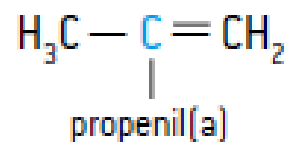
HC Ramificados



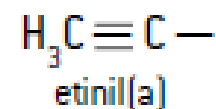
fenil(a)



α-naftil(a)



β-naftil(a)



HC Ramificados

C - C - C - C - C

|

C

C - C - C - C - C

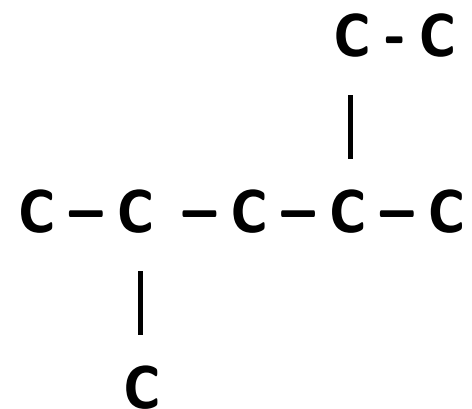
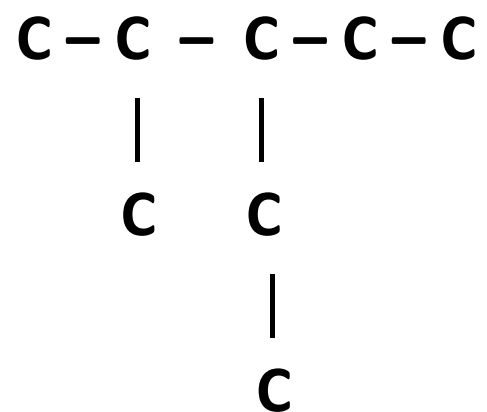
|

C

|

C

HC Ramificados

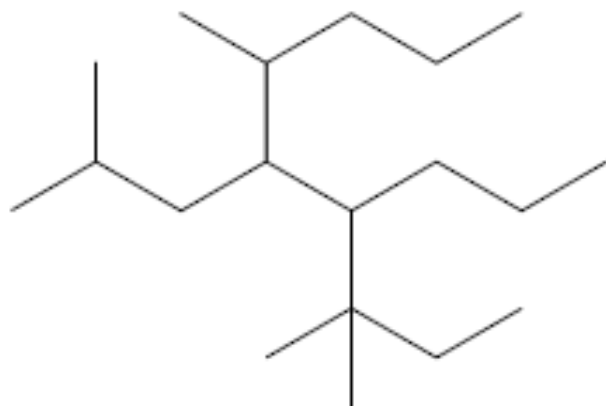


HC Ramificados



HC Ramificados

Analise a estrutura seguinte e considere as regras de nomenclatura da IUPAC.



Assinale a opção que indica as cadeias laterais ligadas, respectivamente, aos carbonos de números 4 e 5 da cadeia hidrocarbônica principal.

- a. Propil e isobutil
- b. Metil e isobutil
- c. Terc-pentil e terc-butil
- d. Propil e terc-pentil
- e. Metil e propil

HC Ramificados

Escreva as fórmulas estruturais dos seguintes compostos a seguir.

- a. 2-metil-heptano
- b. 2,4-dimetil-pentano

Módulo 04

65, 66, 68,

69, 71.

Agenda 2020