

# QUÍMICA

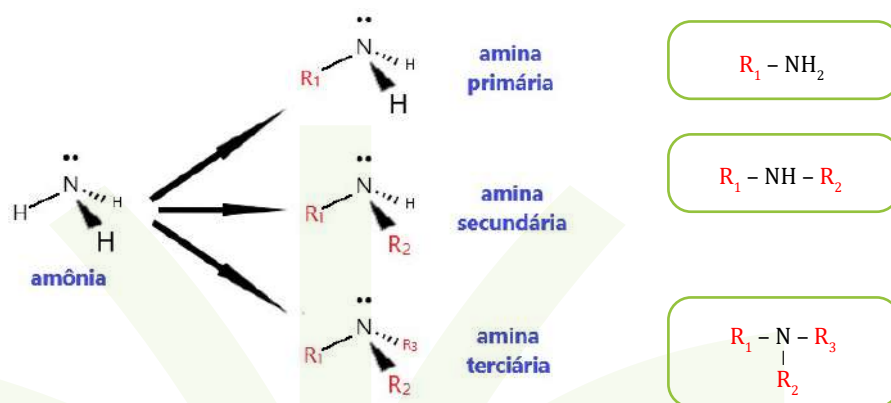
com Pedro Nunes

Funções nitrogenadas

# FUNÇÕES NITROGENADAS

## AMINAS

São compostos teoricamente derivados da amônia, pela substituição parcial ou total dos hidrogênios por radicais alquilas (radicais derivados dos alcanos) ou radicais arilas (radicais derivados dos aromáticos).



## NOMENCLATURA DAS AMINAS

### Aminas Primárias

Nome do hidrocarboneto correspondente

+

Amina

### Aminas Secundárias e Terciárias

N

+

Nome do radical menor ligado ao nitrogênio

+

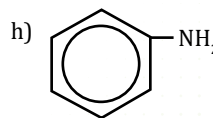
Nome do hidrocarboneto correspondente

+

Amina

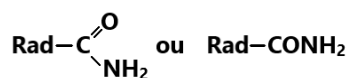
- a)  $CH_3 - NH_2$   
 b)  $CH_3 - NH - CH_3$   
 c)  $CH_3 - NH - CH_2 - CH_3$   
 d)  $CH_3 - CH_2 - NH - CH_2 - CH_3$   
 e)  $CH_3 - CH_2 - NH_2$

- f)  $CH_3 - N - CH_3$   
 $\quad \quad |$   
 $\quad \quad CH_3$   
 g)  $CH_3 - N - CH_2 - CH_3$   
 $\quad \quad |$   
 $\quad \quad CH_3$



## AMIDAS

São compostos que apresentam fórmula geral igual a ...



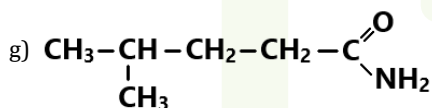
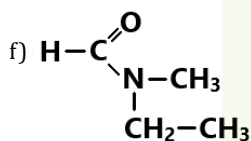
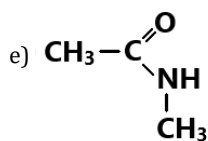
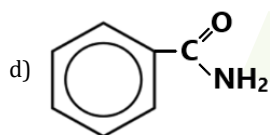
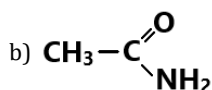
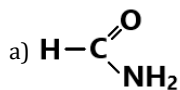
O radical ligado a carbonila poderá ser alquila ou arila, e ainda pode ser o hidrogênio. Ligado ao hidrogênio poderemos ter hidrogênios ou grupamentos alquilas ou arilas também.

Nome do hidrocarboneto correspondente

+

Amida

## NOMENCLATURA DAS AMIDAS



## NITROCOMPOSTOS

São compostos que apresentam um ou mais grupamentos nitro ligados diretamente a um radical alquila ou arila. Apresentam fórmula geral igual a ...

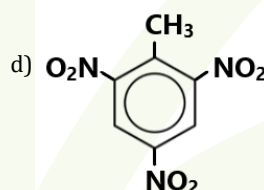
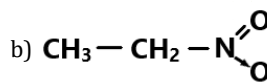
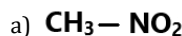


## NOMENCLATURA DOS NITROCOMPOSTOS

Nitro

+

Nome do hidrocarboneto correspondente



## NITRILOS

São compostos derivados do cianeto de hidrogênio (HCN) pela substituição do hidrogênio por radical alquila ou arila. Apresentam a fórmula geral igual a ...

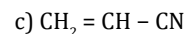
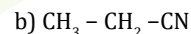
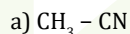


## NOMENCLATURA DOS NITRILOS

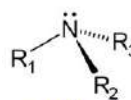
Nome do hidrocarboneto correspondente

+

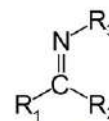
Nitrilo



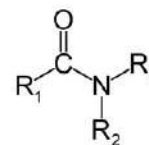
## OUTRAS FUNÇÕES NITROGENADAS



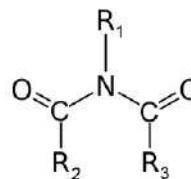
Amina



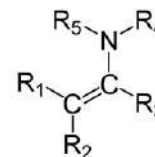
Imina



Amida

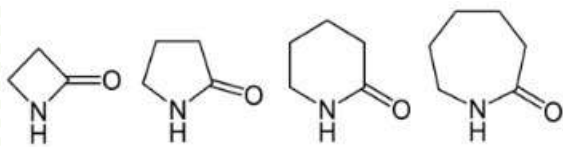


Imida



Enamia

## CUIDADO COM AS AMIDAS CÍCLICAS



lactama



Anote aqui





*Estamos juntos nessa!*



CURSO  
**FERNANDA PESSOA**  
ONLINE

TODOS OS DIREITOS RESERVADOS.