



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Aromacké uhlovodíky - názvosloví

Temacká oblast : Chemie - organická chemie

Datum vytvoření: 13. 7. 2012

Ročník: 2. ročník čtyřletého gymnázia (sexta osmiletého gymnázia)

Stručný obsah: Principy systematického a triviálního názvosloví arenů a arylů.

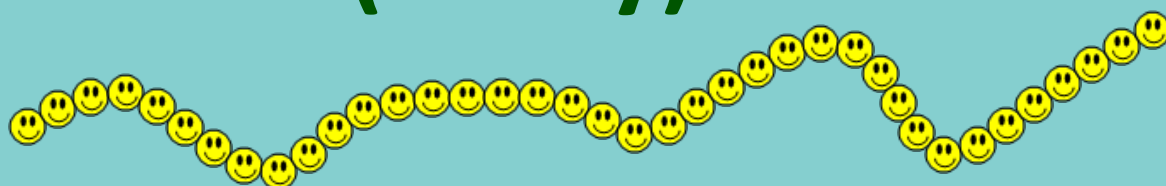
Způsob využití : Aktivní práce studentů při tvorbě názvů a vzorců arenů, uplatnění znalostí principů názvosloví organických sloučenin.

Autor: Mgr. Svatava Benešová

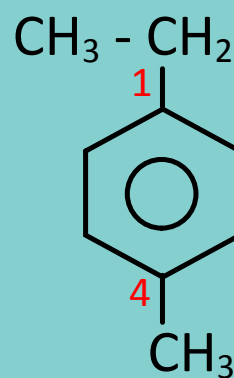
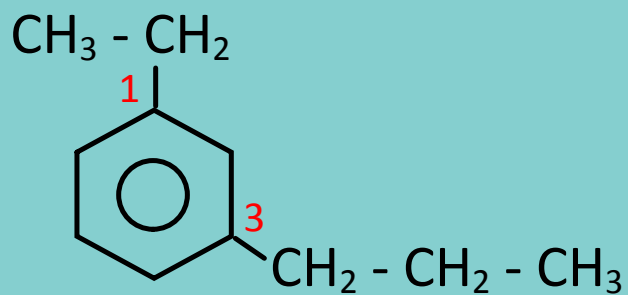
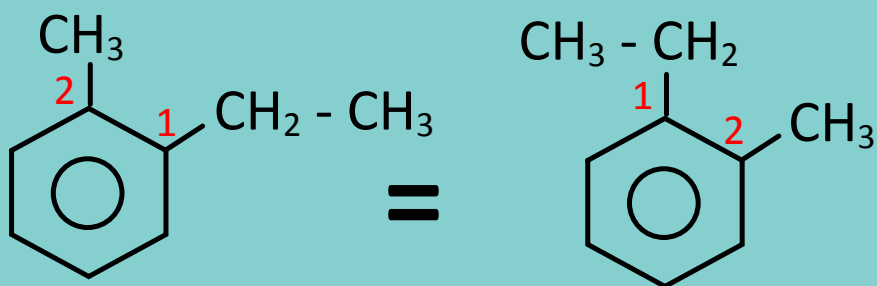
Kód: VY_32_INOVACE_29_HBEN09

Gymnázium a Jazyková škola s právem státní jazykové zkoušky Zlín

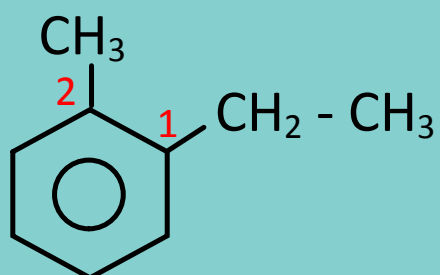
Aromacké uhlovodíky (areny)



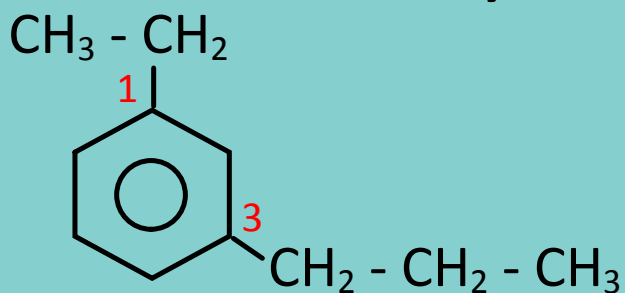
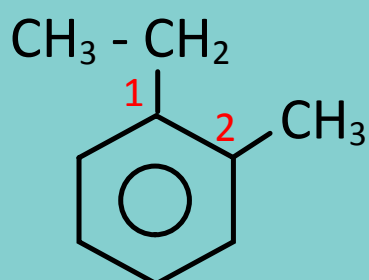
- 1) Monocyklické areny
- 2) Polycyklické areny
- 3) Aryly

Vytvoř názvy:

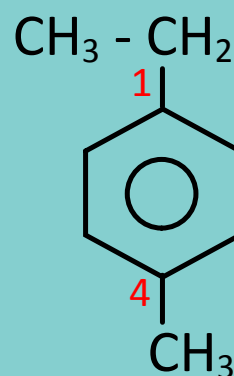
Řešení:



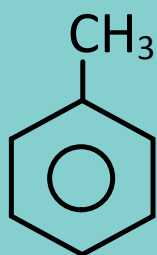
1 - ethyl - 2 - methylbenzen



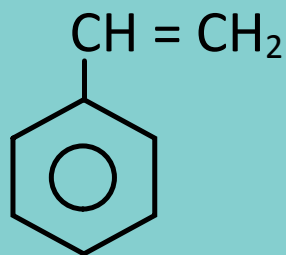
1 - ethyl - 3 - propylbenzen



1 - ethyl - 4 - methylbenzen

Přiřaď názvy k arenům:

kumen
styren
toluen
mesitylen

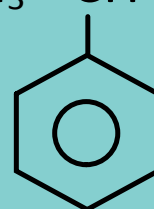
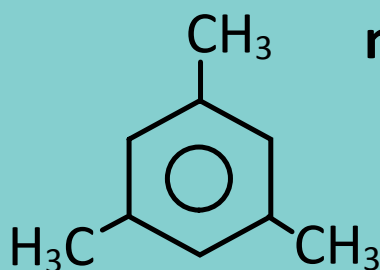


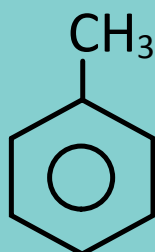
isopropylbenzen

1,3,5 - trimethylbenzen

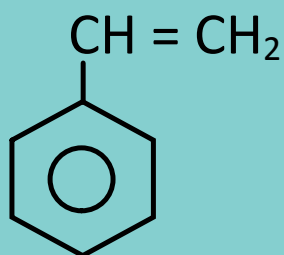
vinylbenzen

methylbenzen $\text{CH}_3 - \text{CH} - \text{CH}_3$

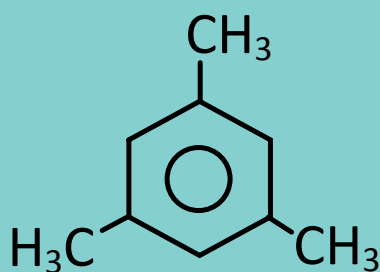


Řešení:

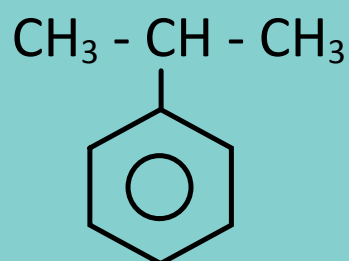
methylbenzen
toluen



vinylbenzen
styren

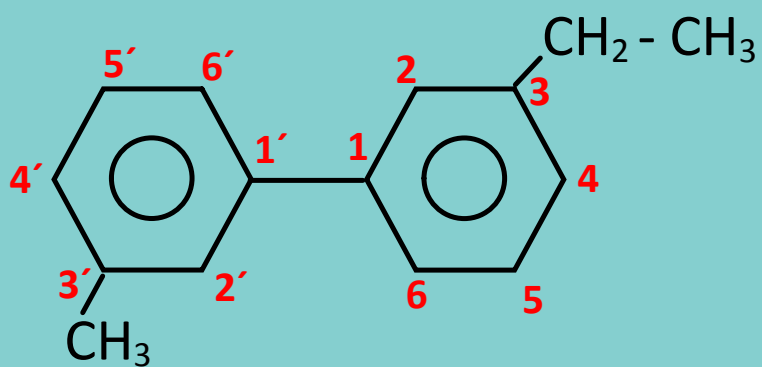
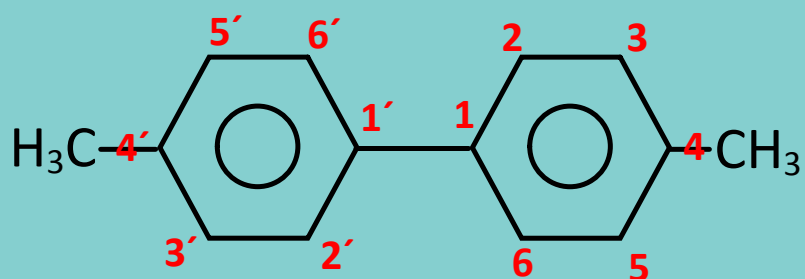


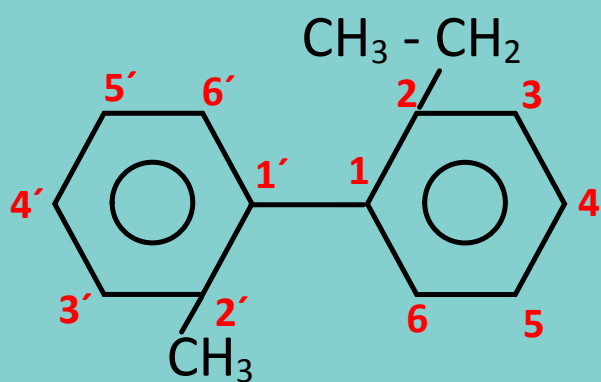
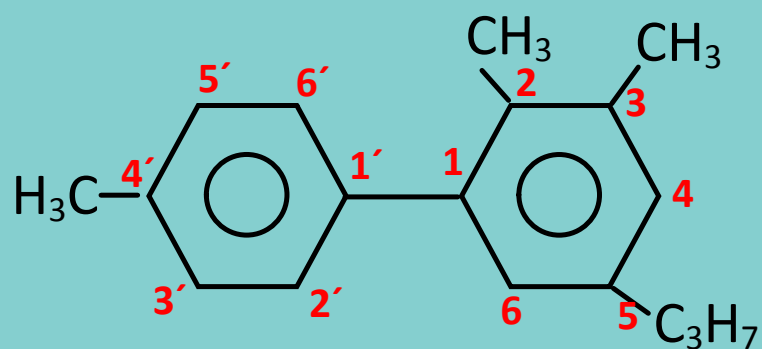
1,3,5 - trimethylbenzen
mesitylen



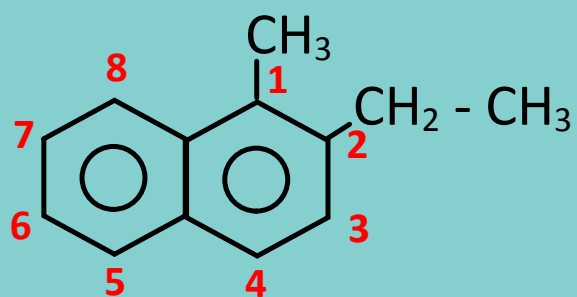
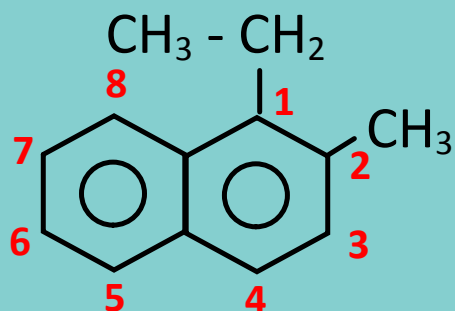
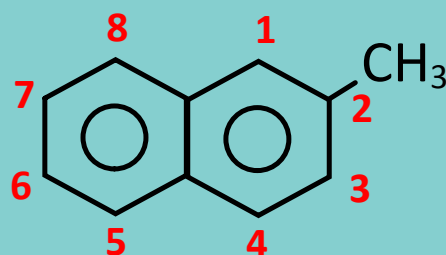
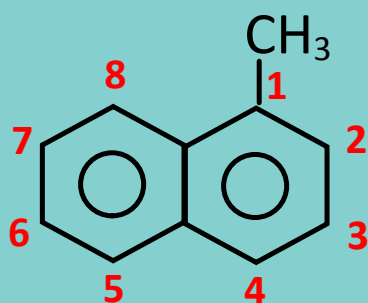
isopropylbenzen
kumen

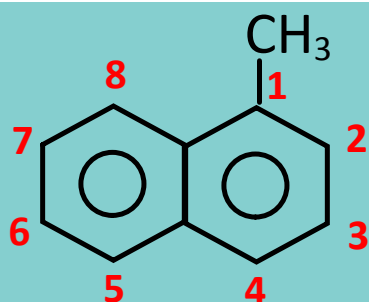
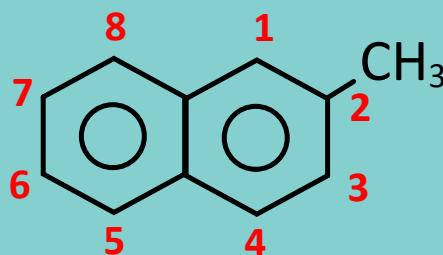
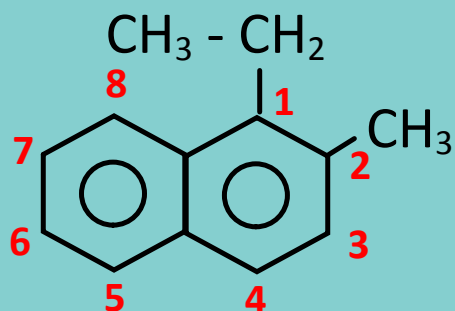
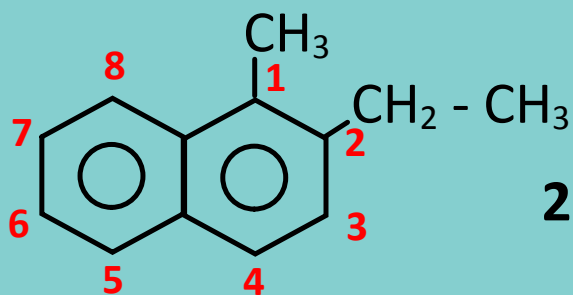
Nazvi:



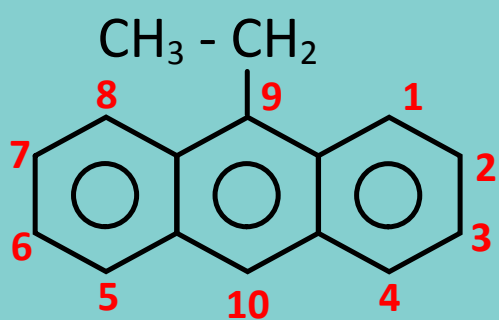
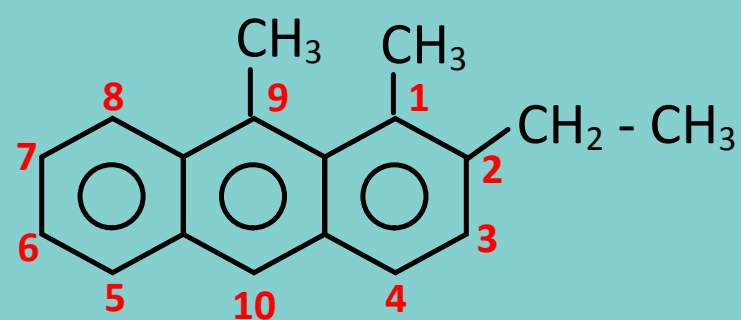
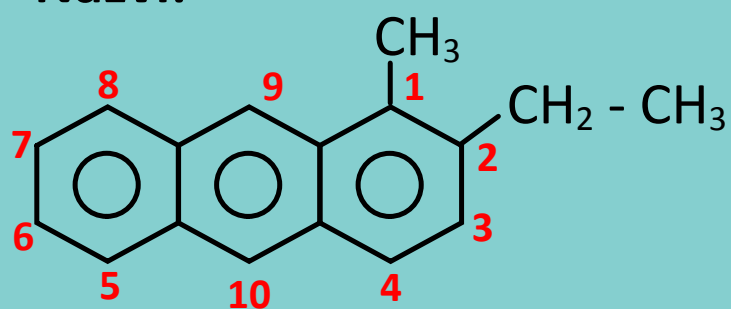


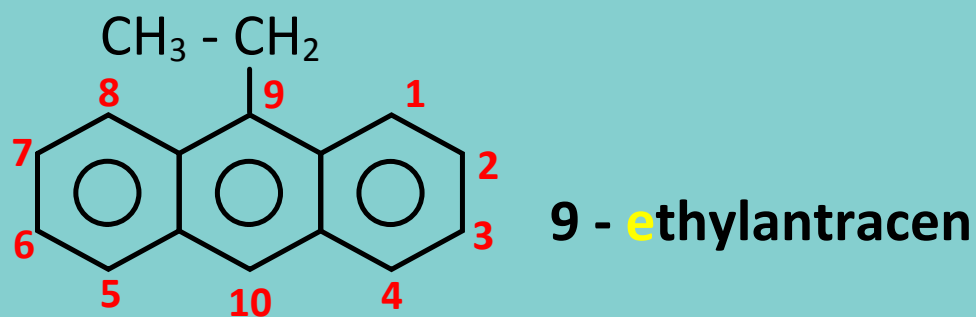
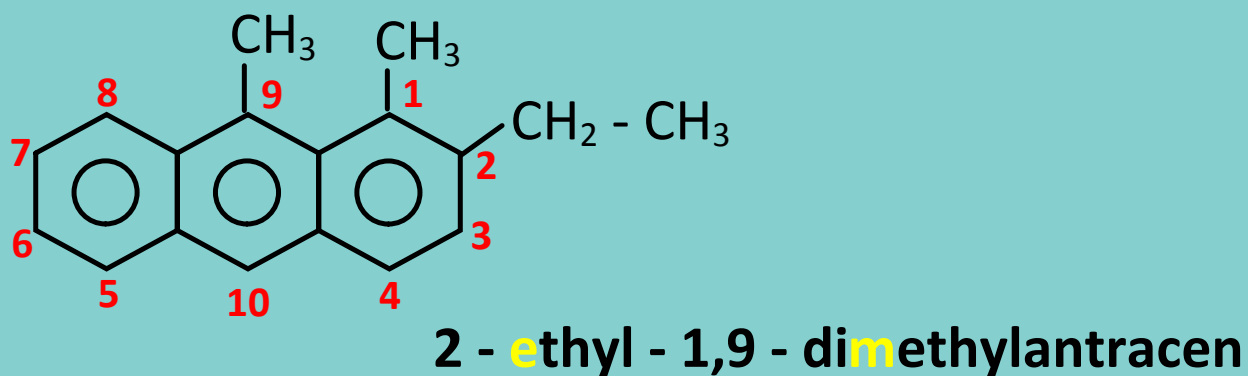
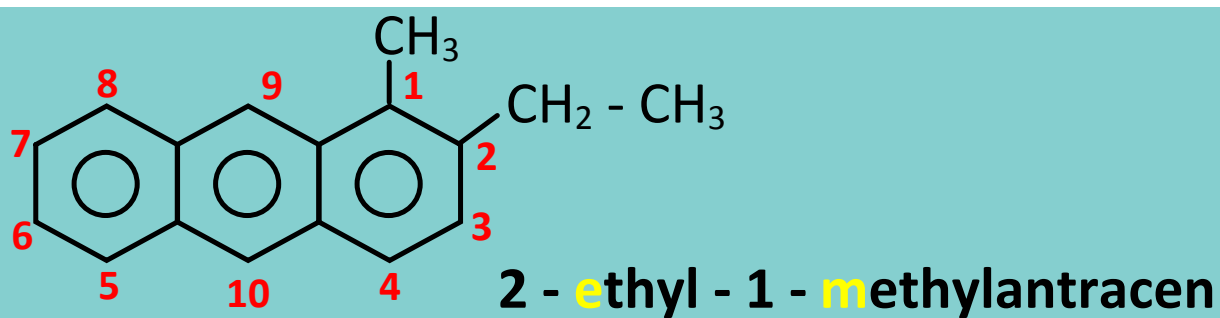
Nazvi:



**1 - methylnaalen****2 - methylnaalen****1 - ethyl - 2 - methylnaalen****2 - ethyl - 1 - methylnaalen**

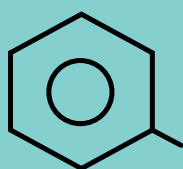
Nazvi:



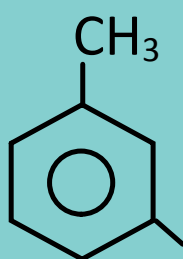


Vytvoř názvy:

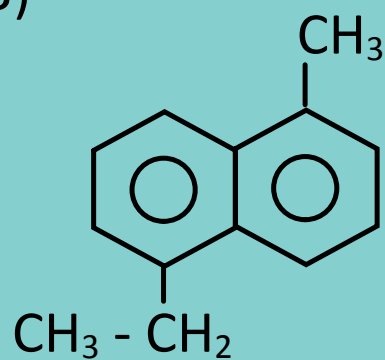
1)



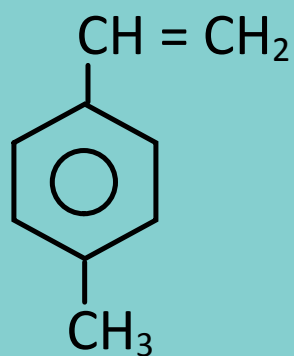
2)



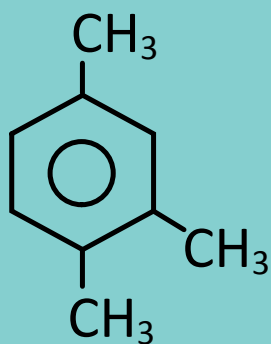
3)



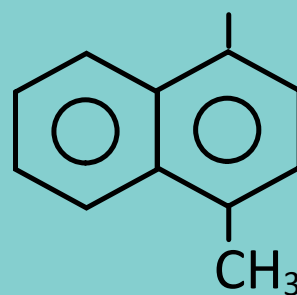
4)



5)



6)



Řešení:

- | | |
|----------|--|
| 1) fenyl | 2) 3 - methylbenzen - 1 - yl
3 - tolyl
meta - tolyl
3 - methylfenyl |
|----------|--|
-

3) 5 - ethyl - 1 - methylnaalen

4) p - methylstyren
4 - methylstyren

5) 1,2,4,- trimethylbenzen

6) 4 - methylnaalen - 1 - yl
4 - methyl - 1 - nayl

Vytvoř vzorce:

1) 2 - ethyl - 1,4 - dimethyl - 3 - propylbenzen

2) p - divinylbenzen

3) 1,3,9 - trimethylantracen

4) naalen - 1,4 - diyl

5) toluen

6) isopropylbenzen

Řešení: