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## Přírodní vědy aktivně a interaktivně

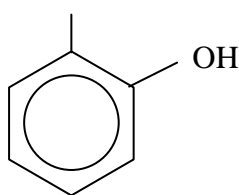
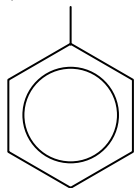
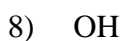
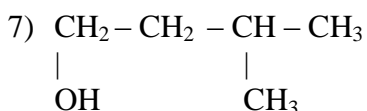
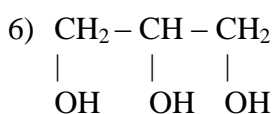
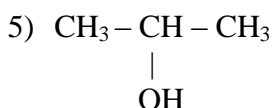
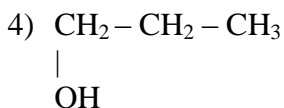
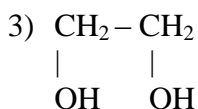
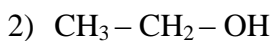
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Elektronický materiál byl vytvořen v rámci projektu OP VK CZ.1.07/1.1.24/01.0040

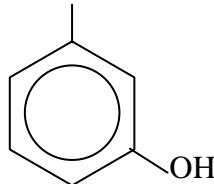
Zvyšování kvality vzdělávání v Moravskoslezském kraji  
Střední průmyslová škola stavební, Havířov, příspěvková organizace

<b>Název EM</b>	Hydroxyderiváty – názvosloví
<b>Název sady EM</b>	BUL_CHE_18
<b>Vzdělávací obor</b>	Chemie
<b>Vzdělávací oblast</b>	Člověk a příroda, Informační a komunikační technologie
<b>Autor</b>	Mgr. Iveta Bulavová
<b>Ročník</b>	3. (Technické lyceum)
<b>Anotace</b>	Pracovní list pro studenty, který vysvětluje základní tvorbu názvosloví hydroxyderivátů včetně využití vzorců v rovnicích. Vzorce a modely sloučenin byly vytvořeny v programu Chems sketch.

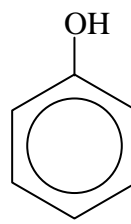
## Pojmenuj vzorce:



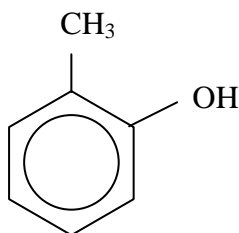
benzen-1,2-diol  
pyrokatechin  
pyrokatechol



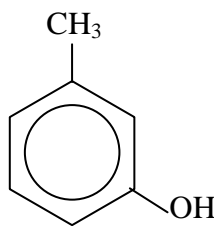
benzen-1,3-diol  
resorcin  
resorcinol



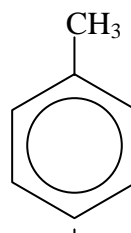
$\text{OH}$   
benzen-1,4-diol  
hydrochinon



2-methylfenol  
o-kresol



3-methylfenol  
m-kresol



$\text{OH}$   
4-methylfenol  
p-kresol

## Řešení:

methanol (methylalkohol)

ethanol (ethylalkohol)

ethan-1,2-diol (ethylenglykol)

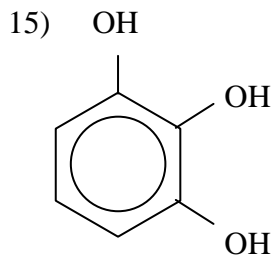
propan-1-ol

propan-2-ol

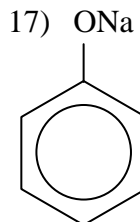
propan-1,2,3-triol (glycerin, glycerol)

3-methylbutan-1-ol

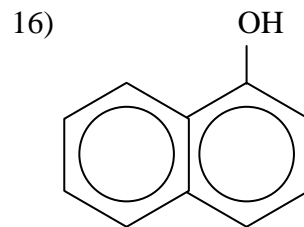
fenol



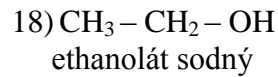
benzen-1,2,3-triol (pyrogallol)



fenolát sodný

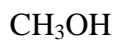


naft-1-ol



## Napiš vzorce:

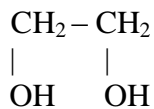
1) methanol



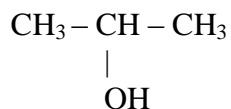
2) ethanol



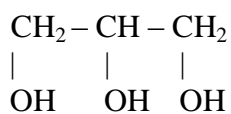
3) ethan-1,2-diol



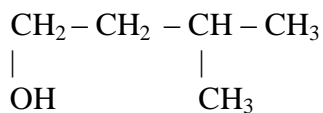
4) propan-2-ol



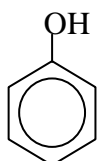
5) propan-1,2,3-triol



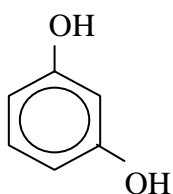
6) 3-methylbutan-1-ol



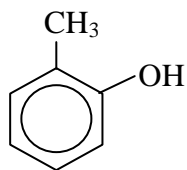
7) fenol



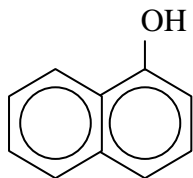
8) benzen-1,3-diol



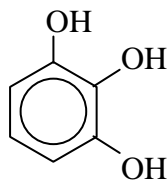
9) 2-methylfenol



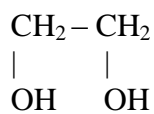
10) naft-1-ol



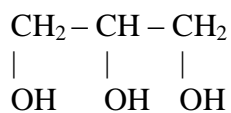
11) benzen-1,2,3-triol



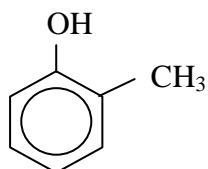
12) ethylenglykol = ethan-1,2-diol



13) glycerol = propan-1,2,3-triol



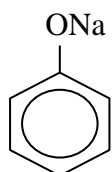
14) o-kresol = 2-methylfenol



15) ethanolát sodný

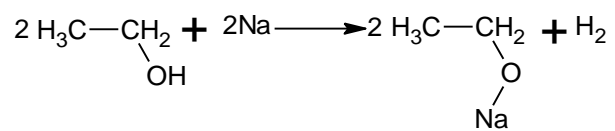


16) fenolát sodný

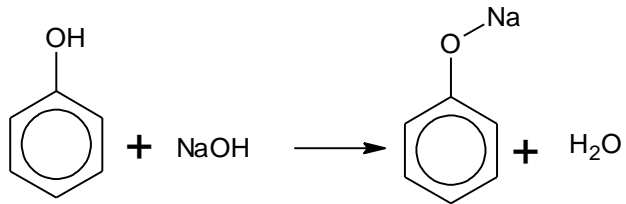




7) ethanol + sodík → ethanolát sodný + vodík



8) fenol + hydroxid sodný → fenolát sodný + voda



9) fenolát sodný + oxid uhličitý + voda → fenol + hydrogenuhličitan sodný

