

2 cond → 30 pt

Key

NAME _____ DATE _____

CLASS _____ TEACHER _____

NAMING ALCOHOLS, PHENOLS, AND ETHERS

On the lines provided, write the correct name for each of the following compounds. Where appropriate, indicate whether an alcohol is primary, secondary, or tertiary.

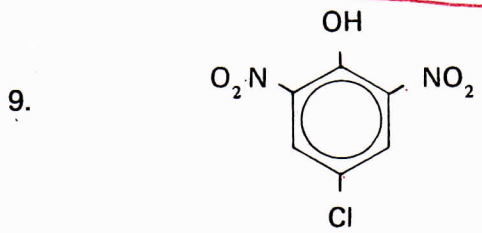
1. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
1-butanol 1°

7. $(\text{CH}_3)_3\text{COH}$
~~1-methyl ethanol~~ 2-methyl-2-propanol 3°

OK ~~2~~ $\text{CH}_3\text{CHOHCH}_2\text{C}(\text{CH}_3)_2\text{CH}_3$
4,4-dimethyl-2-pentanol 2°

OK ~~8~~ $\text{CH}_3\text{CHClCH}_2\text{CHOHCH}(\text{CH}_3)\text{C}(\text{CH}_3)_3$
2-chloro-4,5,5-trimethyl-3-hexanol 2°

~~3~~ $\text{CH}_3\text{CH}_2\text{OCH}_3$



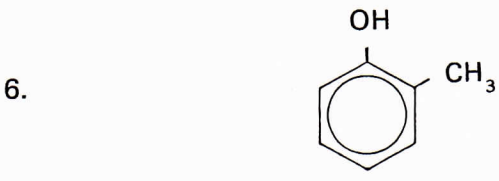
~~3~~ 4-chloro-2,6-dinitrophenol
5-chloro-2-hydroxy-1,3-dinitrobenzene

OK ~~4~~ $\text{CH}_2\text{OHCHOHCH}_2\text{OH}$
1,2,3-propanetriol (glycerol)

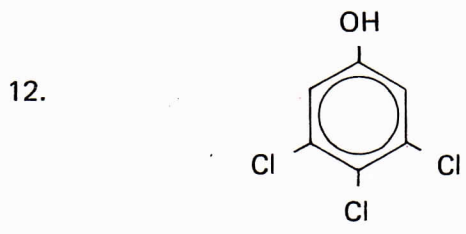
10. $\text{CH}_2\text{ClCH}_2\text{CH}(\text{CH}_3)\text{C}(\text{OH})(\text{C}_2\text{H}_5)\text{CH}_2\text{CH}_3$
6-chloro-3-ethyl-4-methyl-3-hexanol 3°

~~5~~ $(\text{CH}_3\text{CH}_2)_2\text{O}$

~~11~~ $\text{CH}_3\text{CH}_2\text{CH}_2\text{OCH}(\text{CH}_3)_2$



o-methylphenol



3,4,5-trichlorophenol

NAME _____ DATE _____

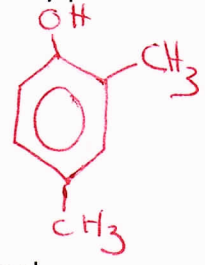
CLASS _____ TEACHER _____

FORMULA WRITING: ALCOHOLS, PHENOLS, AND ETHERS

Write a structural formula for each of the following compounds. Check to be sure that the given name is correct.

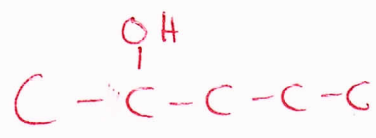
~~1.~~ sec-butyl alcohol

6. 2,4-dimethylphenol

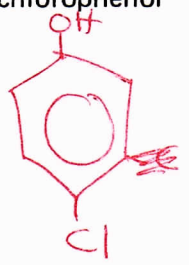


~~2.~~ methylethylether

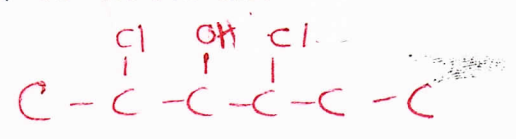
7. 2-pentanol



3. p-chlorophenol



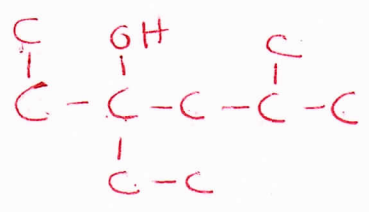
8. 2,4-dichloro-3-hexanol



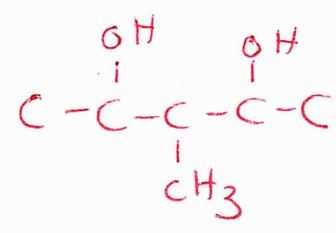
~~4.~~ methylphenylether

~~9.~~ methylisopropylether

5. 1,4-dimethyl-2-ethyl-2-pentanol



10. 3-methyl-2,4-pentanediol



ethyl-5-methyl-3-hexanol
3'