

gridlocks – can you unlock the grid?

Organic names: prefixes

Before you answer the puzzles below fill in the table of organic compounds using:

-CH₂CH₃ methyl iodo hydroxy nitro -CH₂CH₂CH₃

Side chain or group	Prefix	Side chain or group	Prefix
-CH ₃		-Br	bromo
	ethyl	-I	
	propyl	-OH	
-C ₆ H ₅	phenyl	-NH ₂	amino
-F	fluoro	-CN	cyano
-Cl	chloro	-NO ₂	

Gridlock 1

Each row, column and 2 x 2 box contains information about the prefixes: methyl, ethyl, propyl and phenyl. Use your problem solving skills and the table you filled in before (click View table) to fill in the blank boxes and unlock the grid.

side chain or group		prefix	
-CH ₂ CH ₃			
		phenyl	
		-CH ₃	
	propyl		
prefix			side chain or group

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Gridlock 2

Each row, column and 2 x 2 box contains information about each of the halides.

side chain or group		prefix	
	-F		iodo
			fluoro
chloro			-Br
prefix		side chain or group	

Gridlock 3

Each row, column and 2 x 2 box contains information about the groups: -NO₂, -OH, -NH₂ and -CN.

side chain or group		prefix	
-NH ₂			hydroxy
			-NO ₂
cyano			
prefix		side chain or group	

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Organic names: prefixes – answers

Side chain or group	Prefix	Side chain or group	Prefix
-CH ₃	methyl	-Br	bromo
-CH ₂ CH ₃	ethyl	-I	iodo
-CH ₂ CH ₂ CH ₃	propyl	-OH	hydroxy
-C ₆ H ₅	phenyl	-NH ₂	amino
-F	fluoro	-CN	cyano
-Cl	chloro	-NO ₂	nitro

Gridlock 1 – answers

side chain or group		prefix	
-CH ₂ CH ₃	-C ₆ H ₅	propyl	methyl
-CH ₂ CH ₂ CH ₃	-CH ₃	phenyl	ethyl
phenyl	ethyl	-CH ₃	-CH ₂ CH ₂ CH ₃
methyl	propyl	-CH ₂ CH ₃	-C ₆ H ₅
prefix			side chain or group

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Gridlock 2 – answers

side chain or group		prefix	
-Br	-F	chloro	iodo
-I	-Cl	bromo	fluoro
fluoro	bromo	-I	-Cl
chloro	iodo	-F	-Br
prefix		side chain or group	

Gridlock 3 – answers

side chain or group		prefix	
-NH ₂	-CN	nitro	hydroxy
-NO ₂	-OH	amino	cyano
hydroxy	amino	-CN	-NO ₂
cyano	nitro	-OH	-NH ₂
prefix		side chain or group	