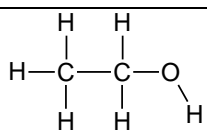


gridlocks – can you unlock the grid?

Alcohols

Before you answer the puzzles below fill in the table of alcohols:

Name	Number of carbons	Formula	Displayed formula
methanol	1	CH ₃ OH	
ethanol	2	C ₂ H ₅ OH	
propanol	3	C ₃ H ₇ OH	
butanol	4	C ₄ H ₉ OH	

Gridlock 1

Each row, column and 2 x 2 box contains information about the four alcohols listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

number of carbons		name	
2			methanol
	propanol		4
name		number of carbons	

gridlocks – can you unlock the grid?

Gridlock 2

Each row, column and 2 x 2 box contains information about the four alcohols.

name		formula	
ethanol			
		C_4H_9OH	
		$ \begin{array}{c} H \\ \\ H-C-O \\ \quad \\ H \quad H \end{array} $	
	C_3H_7OH		
formula		displayed formula	

Gridlock 3

Each row, column and 2 x 2 box contains information about the four alcohols.

name		displayed formula	
	methanol		$ \begin{array}{ccccccc} H & H & H & H & & & \\ & & & & & & \\ H-C & -C & -C & -C & -O & & H \\ & & & & & & \\ H & H & H & H & & & \end{array} $
			$ \begin{array}{c} H \\ \\ H-C-O \\ \quad \\ H \quad H \end{array} $
$ \begin{array}{c} H \\ \\ H-C-O \\ \quad \\ H \quad H \end{array} $			
$ \begin{array}{ccc} H & H & \\ & & \\ H-C & -C & -O \\ & & \\ H & H & H \end{array} $			propanol
displayed formula		name	

gridlocks – can you unlock the grid?