

Naming esters

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

ethylmethanoate	HCOO(CH ₂) ₂ CH ₃	propylethanoate	CH ₃ CH ₂ COOCH ₃
name		structural formula	
methylethanoate		CH₃COOCH₃	
		HCOOCH₂CH₃	
methylpropanoate			
propylmethanoate			
ethylpropanoate		CH ₃ CH ₂ COOCH ₂ CH ₃	
		CH ₃ COO(CH ₂) ₂ CH ₃	

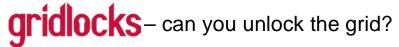
Gridlock 1

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

name		structural formula	
ethylmethanoate			CH₃COOCH₃
			propylmethanoate
CH3CH2COOCH3			
structural formula		na	me







Gridlock 2

Each row, column and 2 x 2 box contains the bottom four esters in the table.

name		structural formula	
propylethanoate			CH3CH2COOCH2CH3
	CH₃CH₂COOCH₃		propylmethanoate
structural formula		na	me

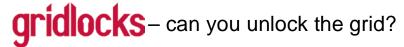
Gridlock 3

Each row, column and 2 x 2 box contains four **new** esters.

name		structural formula	
ethylethanoate			
		CH ₃ (CH ₂) ₂ COOCH ₂ CH ₃	
		methylmethanoate	
	CH ₃ CH ₂ COO(CH ₂) ₂ CH ₃		
structural formula		na	me







Naming esters – answers

name	structural formula	
methylethanoate	CH₃COOCH₃	
ethylmethanoate	HCOOCH₂CH₃	
methylpropanoate	CH₃CH₂COOCH₃	
propylmethanoate	HCOO(CH ₂) ₂ CH ₃	
ethylpropanoate	CH ₃ CH ₂ COOCH ₂ CH ₃	
propylethanoate	CH ₃ COO(CH ₂) ₂ CH ₃	

Gridlock 1 - answers

name		structural formula	
ethylmethanoate	methylpropanoate	HCOO(CH2)2CH3	CH₃COOCH₃
propylmethanoate	methylethanoate	HCOOCH₂CH₃	CH₃CH₂COOCH₃
CH₃COOCH₃	HCOOCH₂CH₃	methylpropanoate	propylmethanoate
CH₃CH₂COOCH₃	HCOO(CH ₂) ₂ CH ₃	methylethanoate	ethylmethanoate
structural formula		name	





gridlocks - can you unlock the grid?

Gridlock 2 - answers

name		structural formula	
propylethanoate	propylmethanoate	CH₃CH₂COOCH₃	CH3CH2COOCH2CH3
methylpropanoate	ethylpropanoate	HCOO(CH ₂) ₂ CH ₃	CH ₃ COO(CH ₂) ₂ CH ₃
CH3CH2COOCH2CH3	CH3CH2COOCH3	propylethanoate	propylmethanoate
HCOO(CH₂)₂CH₃	CH3COO(CH2)2CH3	ethylpropanoate	methylpropanoate
structural formula		name	

Gridlock 3 – answers

name		structural formula	
ethylethanoate	ethylbutanoate	CH ₃ CH ₂ COO(CH ₂) ₂ CH ₃	HCOOCH₃
propylpropanoate	methylmethanoate	CH ₃ (CH ₂) ₂ COOCH ₂ CH ₃	CH₃COOCH₂CH₃
CH ₃ (CH ₂) ₂ COOCH ₂ CH ₃	CH3COOCH2CH3	methylmethanoate	propylpropanoate
HCOOCH₃	CH ₃ CH ₂ COO(CH ₂) ₂ CH ₃	ethylethanoate	ethylbutanoate
structural formula		nai	me



