

gridlocks – can you unlock the grid?

Symbols

Before you answer the puzzles below fill in the table symbols using:

temperature		melting point		relative atomic mass ΔH	
Symbol	Meaning	Symbol	Meaning	Symbol	Meaning
	standard enthalpy change	V	volume		
[A]	concentration of A in mol/dm ³	T _m			
T		R	gas constant		
m	mass	M _r	relative formula mass		
n	mol	T _b	boiling point		
P	pressure	A _r			

Gridlock 1

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

symbol		meaning	
[A]			
		mass	
		ΔH	
	temperature		
	meaning		symbol

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Gridlock 2

Each row, column and 2 x 2 box contains information on the symbols R, Mr, Tb and Ar.

symbol		meaning	
	R		relative atomic mass
			gas constant
relative formula mass			T _b
meaning		symbol	

Gridlock 3

Each row, column and 2 x 2 box contains information on the symbols n, P, V and T_m.

symbol		meaning	
P			mol
			T _m
volume			
meaning		symbol	

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Symbols – answers

Symbol	Meaning	Symbol	Meaning
ΔH	standard enthalpy change	V	volume
[A]	concentration of A in mol/dm ³	T _m	melting point
T	temperature	R	gas constant
m	mass	M _r	relative formula mass
n	mol	T _b	boiling point
P	pressure	A _r	relative atomic mass

Gridlock 1 – answers

symbol		meaning	
[A]	m	temperature	standard enthalpy change
T	ΔH	mass	concentration of A in mol/dm ³
mass	concentration of A in mol/dm ³	ΔH	T
standard enthalpy change	temperature	[A]	m
meaning		symbol	

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Gridlock 2 – answers

symbol		meaning	
T_b	R	relative formula mass	relative atomic mass
A_r	M_r	boiling point	gas constant
gas constant	boiling point	A_r	M_r
relative formula mass	relative atomic mass	R	T_b
meaning		symbol	

Gridlock 3 – answers

symbol		meaning	
P	V	melting point	mol
T_m	n	pressure	volume
mol	pressure	V	T_m
volume	melting point	n	P
meaning		symbol	