

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, M_r , T_b and A_r .

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	