• A key step in the metabolism of glucose glucose-6-phosphate (G6P) to fructose-6		Marks 4
G6P =	F6P	
At 298 K, the equilibrium constant for the isomerisation is 0.510. Calculate ΔG° at 298 K.		
	Answer:	
Calculate ΔG at 298 K when the [F6P] / [G6P] ratio = 10.		
		_
	Answer:	
In which direction will the reaction shift in order to establish equilibrium? Why?		
• The specific heat capacity of water is 4.18 J g ⁻¹ K ⁻¹ and the specific heat capacity of copper is 0.39 J g ⁻¹ K ⁻¹ . If the same amount of energy were applied to a 1.0 mol sample of each substance, both initially at 25 °C, which substance would get hotter? Show all working.		2
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	Answer:	