•	A mass of 1.250 g of benzoic acid, $C_7H_6O_2$, underwent combustion in a bomb calorimeter. The heat of combustion of benzoic acid is -3226 kJ mol ⁻¹ . What is the change in internal energy during this reaction?	Marks 4
	A	
	Answer:	_
	If the heat capacity of the calorimeter is 10.134 kJ K^{-1} , calculate the temperature change that should have occurred in the apparatus.	
	Answer:	