Quiz 6.3 – Enth	ıalı	pv
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Name:			

Question 1 (2 points)

A bomb calorimeter has a calibrated heat capacity of $C_{cal}=2.673\,\frac{kJ}{^{\circ}C}$

1.25~g of sucrose (C₁₂H₂₂O₁₁) are burned in the calorimeter and the temperature rises by $7.71~^{\circ}C$ Calculate ΔH_{rxn} for the combustion of sucrose

Question 2 (3 points)

Consider the reaction: $H_2S(g) + 2O_2(g) \longrightarrow SO_3(g) + H_2O(l)$ $\Delta H_{rxn} = -207 \frac{kJ}{mol}$

If 5.2~g of $\mathrm{H_2S}$ are reacted with excess $\mathrm{O_2}$, how much heat will be released?

My Voice

By Rafael Campo

To cure myself of wanting Cuban songs, I wrote a Cuban song about the need For people to suppress their fantasies, Especially unhealthy ones. The song Began by making reference to the sea, Because the sea is like a need so great And deep it never can be swallowed. Then The song explores some common myths About the Cuban people and their folklore: The story of a little Carib boy Mistakenly abandoned to the sea; The legend of a bird who wanted song So desperately he gave up flight; a queen Whose strength was greater than a rival king's. The song goes on about morality, And then there is a line about the sea, How deep it is, how many creatures need Its nourishment, how beautiful it is To need. The song is ending now, because I cannot bear to hear it any longer. I call this song of needful love my voice.