1

2

Question 23 (3 marks)

- (b) A student measured the heat of combustion of three different fuels. The results are shown in the table.

	Heat of	noky mass	
Fuel	<i>combustion</i> (kJ g ⁻¹)	$n = \frac{M}{M}$	= (2.01×4) + (4) (1.008×10)
A	-48	2=- 48-74-12	8755
B	-38	74-12	=74.12
C	-28	= 0.64	
		= 0.64	

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The published value for the heat of combustion of 1-butanol is 2676 kJ mol-1.

Which fuel from the table is likely to be 1-butanol? Justify your answer.

Ret C. Ford C has a total of 00377657853/ma, hereaforth , have , the closed number to the published value of 2676 x pholes. Compared to the other Values of 8 A = 0-64.... B= 0.51. where both or in yours

-11-

ares. We set managed to in an at 15