Question 23 (3 marks)

- (b) A student measured the heat of combustion of three different fuels. The results **2** are shown in the table.

Fuel	Heat of combustion (kJ g ⁻¹)	MM = 74.08. * 74.08 = 355584 KT
A	-48	× 74.08 = 3555 84 KJ
В	-38	× 74.08 = 281501
С	-28	× 74.05 = 2676

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.

ful (is 1-intanol. $\Delta H = FJ$ A = m to change to KJ/mol. KJ xmm 00 -28 × 74.08 = 2676 KJ/mel To chang from 165/g to KJ/met pine KJ/g by molar mars to Get 165/met Ott (vect of cumbroshing).