

Thermochemical equations

Work sheet

Activity 1 : Writing the Thermochemical equation:

1. Write the thermochemical equation of Combustion of sucrose ($C_{12}H_{22}O_{11}$) forming carbon dioxide and liquid water , the energy released is 5644 KJ/ mol.

2. Write the thermochemical equation of combustion of methane (CH_4)

3. Write the thermochemical equation of combustion of methane (C_2H_5OH) .

$$\Delta H = -1367 \text{ KJ}$$

Activity 2 : Identify which of the reaction is endothermic reaction and which one is exothermic reaction :

EQUATION	TYPE OF REACTION	EQUATION	TYPE OF REACTION
$C_3H_8(g) \rightarrow C_3H_8(l)$		$C_{10}H_8(s) \rightarrow C_{10}H_8(l)$	
$CO_{2(s)} \rightarrow CO_{2(g)}$		$H_2O(l) \rightarrow H_2O(s)$	