

## Answer on Question#63209 – Chemistry – Organic chemistry

### Question:

If 8.64 moles of  $C_5H_{12}$  reacts with excess  $O_2$ , how many moles of  $CO_2$  will be produced in the following combustion reaction?  $C_5H_{12} + 8O_2 = 6H_2O + 5CO_2$

### Solution:

$$n(CO_2) = 5n(C_5H_{12}) = 5 \cdot 8.64 \text{ mol} = 43.2 \text{ mol}$$

### Answer:

43.2 moles of  $CO_2$

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