How many moles of water are produced from 40 moles fat ?

Solution

Assume that the fat is all tripalmitoylglycerol:

 $\begin{aligned} 2C_{57}H_{110}O_6 + 163O_2 &\to 114CO_2 + 110H_2O \\ n(H_2O) &= \frac{40 \text{ moles} \cdot 110 \text{ moles}}{2 \text{ moles}} = 2200 \text{ moles} \\ \end{aligned}$ Answer: n(H_2O) = 2200 moles.

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