REACTION CATEGORY	COMPLETE COMBUSTION
REACTION DESCRIPTION	For our purposes combustion will mean the reaction of oxygen with a compound containing carbon and hydrogen. A common synonym for combustion is burn.
REACTION FORMAT	$C_XH_Y+ O_2> CO_2+ H_2O$
REACTION GUIDELINES	1. Indentify the reaction as being a combustion reaction. (A hydrocarbon reacting with oxygen)
	2. Remember the products are always CO ₂ and H ₂ O.
	3. Compounds that contain carbon and hydrogen sometimes contain oxygen; the products are still the sameCO ₂ and H ₂ O.
	4. Compounds that contain carbon and hydrogen sometimes contain nitrogen; in this case another product, NO2 is formed along with CO2 and H2O.
	5. Compounds that contain carbon and hydrogen sometimes contain sulfur; in this case another product, SO ₂ is formed along with CO ₂ and H ₂ O.
REACTION GUIDELINE EXAMPLES	1. CH ₄ + 2O ₂ > CO ₂ + 2 H ₂ O 2. 2 H ₂ C ₂ O ₄ + O ₂ > 4CO ₂ + 2H ₂ O 3. C ₂ 1H ₂ 4N ₂ O ₄ + 27 O ₂ > 21 CO ₂ + 12 H ₂ O + 2NO ₂

Practice Problems

2)
$$C_{12}H_{22}O_{11} + O_2$$
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