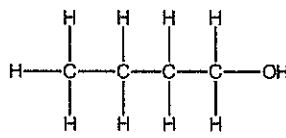
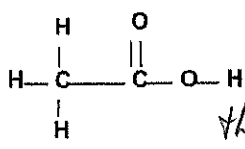


For each of the following pairs identify if the name given correctly matches the formula, if it is not correct explain why it is not correct and correct the name/formula.

- | Name | Formula | |
|---|---|---|
| 1) cobalt chloride
<u>cobalt(III) chloride</u> | CoCl ₃ | <u>name needs to give charge for cobalt</u> |
| 2) sulfur fluoride
<u>sulfur hexafluoride</u> | SF ₆
<u>SF₆</u> | <u>The 6 should be subscripted and we need to say hexa- in the name</u> |
| 3) calcium (II) monoxide
<u>calcium oxide</u> | Ca ₂ O
<u>CaO</u> | <u>Calcium does not need roman numeral NO mono-, di-, tri- for ionic compounds. Finally Ca⁺² + O⁻² NO subscript</u> |
| 4) dialuminum trisulfide
<u>Aluminium sulfide</u> | Al ₂ S ₃ | <u>NO mono-, di-, tri- for ionic compounds</u> |
| 5) sodium oxide
<u>sodium peroxide</u> | Na ₂ O ₂ | <u>O₂⁻² is a peroxide poly atomic ion.</u> |
| 6) manganese diacetate
<u>magnesium acetate</u> | Mg(C ₂ H ₃ O ₂) ₂ | <u>Mg is Magnesium NOT Manganese NO mono-, di-, tri- with ionic compounds.</u> |
| 7) phosphorus sulfide
<u>diphosphorus pentasulfide</u> | P ₂ S ₅ | <u>Covalent compounds need mono-, di-, tri-</u> |
| 8) pentane
<u>butanol</u>
<u>or butan-1-ol</u> |  | <u>4 carbons is a butane, the -OH at the end is an alcohol so we need an -ol ending</u> |
| 9) propanol
<u>ethanoic acid</u> |  | <u>This is a carboxylic acid so the name should end with -oic. There are only 2 carbons so root should be eth-</u> |
| 10) methanol
<u>methyl amine</u> | H ₃ CNH ₂ | <u>This is an amine compound so should have amine in the name.</u> |

Name	Formula	
11) silver (I) nitrate silver nitrate	AgNO ₃	Silver does not need a roman numeral. nitrate is NO ₃ ⁻ not NO ₄ ⁻
12) oxide potassium potassium oxide	K ₂ O	always write the positive ion first. also K ⁺ needs a 2 subscript to balance O ⁻²
13) tin(II) phosphate	Sn ₃ (PO ₄) ₂	The formula is not correct Sn ⁺² PO ₄ ⁻³ we need 3 Sn and 2 PO ₄
14) lithium hydride	LiH	Hydrogen should come second when it is a hydride and there should be only 1, H ⁻
15) phosphorus pentachloride	PCl ₅	penta means 5 chlorines