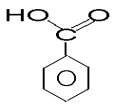
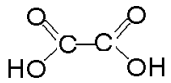
Organic Reactions

Show balanced chemical equations using structural formulas for reactants and products.

1. 1-butene + bromine
2. 3-methyl-2-pentene + hydrogen
3. propene burned in excess oxygen
4. acidified water added to 2,3-dimethyl-2-butene
5. ethyne burned in excess oxygen
6. excess hydrochloric acid added to propyne
7. one mole of chlorous acid ($HClO_2$) added to ethyne
8. 3 moles of chlorine gas added to 2 moles of ethane (with light)
9. 1-butanol + propanoic acid
10. methanol + benzoic acid 
11. pentanoic acid + 1-octanol
12. magnesium + ethanoic acid
13. benzoic acid + sodium hydroxide
14. potassium carbonate + oxalic acid (diethanoic acid) 
15. propyne + excess iodine
16. butene + hydrogen bromide
17. write the balanced equation for the production of 1,1,2-trichloroethane from ethene and chlorine
18. one mole of HCl + ethyne
19. propene + hydrogen
20. cyclohexane + chlorine
21. ethanol + butanoic acid
22. 2-pentene + bromine
23. ethene + water (acidified)
24. chloroethane + NaOH
25. cyclopentene + HBr
26. cyclohexane+chlorine(with hv)
27. bromobenzene + NaOH
28. methanol oxidized (1^{st} stage)
29. 2-propanol oxidized(1^{st} stage)
30. # 28 oxidized
31. ethanoic acid + magnesium hydroxide
32. Complete combustion of 2-methylpentanoic acid