Organic Chemistry

1. Identify the structural group in each of the following compounds and tell which organic family the compound belongs to.

1. CH₃CH₂CH₃  propane

2. CH₃CH₂OH  ethanol

3. CH₃-C
   \   
   \ H  ethanal

4. CH₃CH(CH₃)CH₂CH₃  2-methyl butane

5. CH₃CH₂CH₂CHO  butanal

6. CH₃OCH₃  methoxy methane

7. CH₃-C-CH₂CH₃  butanone or 2-butanone

8. CH₂=CHCH₂CH₃  butene

9. CH₃CHClCH₂CH₃  2-chloro butane

10. CH₃CH₂COOH  propanoic acid

11. CH₃COCH₂CH₂CH₂CH₃  2-hexanone

12. CH₃CH₂CH₂C
   \   
   \ OH  butanoic acid

(continued)
36. 3-ethyl-2-methylhexanal

37. 3-bromo-2, 2-dichlorobutanal

38. 2-chloro-2, 4-dimethyl-3-hexanone

39. methanal

40. 2, 3, 3-trimethylpentanal

41. 2, 4, 4-trimethyl-3-heptanone

42. 4-chloro-4-iodo-3, 3-dimethyl-2-pentanone

43. 2, 3-dibromo-4, 6, 7-trichlorodecanal

44. 5, 7-diethyl-2, 3, 5-trimethyl-4-nonanone

45. butanoic acid

46. 1, 5-pentanedioic acid

47. 3-α-aminopropionic acid

(continued)