

















1. 2,7-dimethyl nonane
2. 4-ethyl-3,3-dimethyl heptane
3. 4-ethyl-6-methyl nonane
4. 6-ethyl-3,3-dimethyl octane
5. 5-ethyl-4-methyl-7-propyl decane
6. 4-ethyl-3,6,7-trimethyl nonane
7. 5-*sec*-butyl-4-isopropyl nonane
8. 5-*tert*-butyl-2-methyl octane
9. 6-*tert*-butyl-4-ethyl-3,5-dimethyl decane
10. 2,2,3-trimethyl heptane
11. 3,6-diethyl-4-isopropyl octane
12. 4-ethyl-3,5-dimethyl octane
13. 1,2-dimethyl cyclohexane
14. 1-ethyl-1,3-dimethyl cyclopentane
15. 1-ethyl-2,3-dimethyl cyclohexane
16. 1-*tert*-butyl-3-isopropyl-5-methyl cyclohexane
17. 1-isobutyl-2-methyl cyclobutane
18. 1-isopropyl-1-propyl cyclohexane
19. 1-bromo-1-chloro-3-iodo-4-methyl pentane
20. 3,3-dibromo-4,6-dichloro octane
21. 4-ethyl-2-fluoro-3-methyl heptane
22. 5-chloro-4-isopropyl-2-methyl heptane
23. 1-bromo-5-*sec*-butyl nonane
24. 1-chloro-2,4-dimethyl cyclohexane
25. 1-bromo-1-chloro-3,3-dimethyl cyclopentane
26. 1,2-dibromo-4-methyl cycloheptane
27. 2-bromo-4-isobutyl-1,1-dimethyl cyclohexane
28. 3-bromo-7-chloro-1-ethyl-1-methyl cyclooctane
29. 1-*sec*-butyl-3-fluorocyclopentane
30. 1-bromo-2-chloro-4-isobutyl cyclopentane
31. 4-octanol
32. 3-bromo-5-chloro-4-heptanol
33. 4-ethyl-5-methyl-1-heptanol
34. 4-chloro-5,5-dimethyl-2-hexanol
35. 2-iodo-2,4-dimethyl-3-pentanol
36. 2,3,3-trimethyl-2-butanol
37. 3-butyl-1-cyclopentanol
38. 4-fluoro-5-iodo-2-methyl-1-cyclohexanol
39. 4,5-diethyl-2-methyl-1-cyclohexanol
40. 7-fluoro-3,6,8-trimethyl-4-decanol
41. 3-ethyl-2,4-dimethyl-1-hexanol
42. 3-chloro-2,2,-dimethyl-1-pentanol
43. 4-methyl-2,5-heptadiol
44. 5-bromo-8,8-dichloro-3-ethyl-6-methyl-4-decanol
45. 5-bromo-6-methyl-3,4-heptadiol
46. butyl cyclopentyl ether

47. octyl phenyl ether
48. *tert*-butyl pentyl ether
49. benzyl isobutyl ether
50. hexyl octyl ether
51. dicyclohexyl ether
52. 4-ethyl-2-methyl hexanal
53. 3-methyl-2-propyl hexanal
54. 4,5-dimethyl octanal
55. 3,3-dibromo-6,6-dichloro-9,9-dimethyl decanal
56. 3-isopropyl-6-methyl heptanal
57. 3,5-dichloro-2,4-dimethyl hexanal
58. 4-ethyl-3-methyl-5-propyl octanal
59. 4-chloro-2,4-diethyl-3-methyl hexanal
60. 3-bromo-4-chloro-2-methyl pentanal
61. 5,6-dibromo-4-methyl-2-heptanone
62. 7-bromo-3,6,6-trimethyl-4-nonanone
63. 5-chloro-6-ethyl-3-nonanone
64. 2,2,6-trimethyl-4-heptanone
65. 5-chloro-4,4-dimethyl-2-hexanone
66. 5-ethyl-3,3-dimethyl-4-heptanone
67. 2,3,3-trimethyl cyclopentanone
68. 3,3,5-trimethyl cyclohexanone
69. 3-bromo-5-chloro cyclohexanone
70. 9-bromo-10-chloro-5-isopropyl-1-decene
71. *trans*-2,2,6-trimethyl-4-octene
72. *cis*-7-bromo-2-chloro-5-ethyl-3-heptene
73. *trans*-5-ethyl-8,8-dimethyl-3-nonene
74. 7,7,7-trichloro-4-ethyl-2-methyl-2-heptene
75. 2-ethyl-1-pentene
76. *trans*-3-methyl-1,4-hexadiene
77. 3-fluoro-6-isopropyl-4,5-dimethyl-1,7-octadiene
78. *cis*-9-bromo-3-chloro-4-ethyl-7-methyl-1,5-nonadiene
79. 4,5,6-trimethyl-2-heptyne
80. 3-butyl-1-octyne
81. 7,9-dichloro-8,8-dimethyl-4-nonyne
82. 4,5-dibromo-1,4-dichloro-2-pentyne
83. 8-bromo-6-*tert*-butyl-9,9-dichloro-5-isobutyl-1-decyne
84. 4-*sec*-butyl-7-chloro-7-methyl-2-octyne
85. 6-bromo-7-chloro-2-heptyne
86. 4-*tert*-butyl-7-chloro-1-heptyne
87. 4-bromo-3-butyl-1-heptyne
88. 7-methyl-1,3,5-octatriyne
89. 3-phenyl-1,6-heptadiyne
90. 5-bromo-6,6-dimethyl-1-heptyne
91. 1-*sec*-butyl-3-chloro-5-ethyl benzene
92. 6-chloro-2,3-dinitro aniline

93. 3-butyl-5-chloro phenol
94. 2-bromo-3,5-dimethyl-6-nitro benzoic acid
95. 5-bromo-2-*tert*-butyl-4-hexyl toluene
96. 1,3-dichloro-4-isobutyl-2-pentyl benzene
97. o-diiodo benzene
98. m-ethyl isopropyl benzene
99. m-nitro aniline
100. o-methyl phenol
101. p-pentyl toluene
102. p-bromo benzoic acid
103. 5-bromo-4-(1-chloroethyl) decane
104. 4-chloro--3-(1-ethylpropyl)-1,1-dimethyl cyclohexane
105. 5-(2,2,-dichloroethyl)-3-iodo-7-methyl nonane
106. 1-bromo-4-(4-bromo-2-chloropentyl)-2-*sec*-butyl-1-chloro cyclopentane
107. 4-(2-bromoethyl)-4-(1-bromomethyl) octane
108. 1-(2-bromopropyl)-2-chloro-3-(1-ethyl-4-methylpentyl) cyclohexane
109. 2,2-dibromo-8-ethyl-7-propyl decane
110. 1,1-dichloro-3-isobutyl-2-(1,4,4-trimethyl hexyl) cyclopentane
111. 1-bromo-3-(3-bromo-2-chlorobutyl)-5-chloro cyclohexane
112. 4-chloro pentanoyl chloride
113. 7-phenyl heptanoyl chloride
114. 2,2,-dimethyl propanoyl chloride
115. 3-ethyl-2-iodo-4-methyl hexanoic acid
116. 2,3-dibromo-2,4-dichloro pentanoic acid
117. 2,3-dibromo-2-chloro butanoic acid
118. 3,3-diethyl-4,4-dimethyl heptanoic acid
119. 2-butyl hexanoic acid
120. 5-bromo-3-chloro-2-isopropyl-6,7-dimethyl octanoic acid
121. (3R, 6S) 6-bromo-3-chloro nonane
122. (R) 4,4-dibromo-2,3-dimethyl hexane
123. (1R, 2R, 4S) 1-butyl-2,4-dichloro cyclohexane
124. (S) 7,7-dimethyl-2-octanol
125. (2S, 3S, 4S) 2-chloro-4-iodo-3-hexanol
126. (S) 4,4,5-trichloro-1-heptanol
127. (4S, 7S) 4-bromo-3-ethyl-7-methyl nonane
128. (2R, 4R) 2-bromo-4-fluoro hexane
129. (3S, 6R) 6-chloro-3-ethyl-2-methyl heptane
130. (E) 4-chloro-5-isopropyl-4-nonene
131. (Z) 4-bromo-2-chloro-3-ethyl-3-heptene
132. (E) 2-phenyl-2-hexene
133. (Z) 4-fluoro-5-propyl-4-decene
134. (3Z, 5Z) 2,4,6-trichloro-3,5-octadiene
135. (1E, 3Z) 4,5-dibromo-2-chloro-1-iodo-1,3-pentadiene
136. 5-ethyl-3,3-dimethyl cyclopentene
137. 1-chloro-4-iodo-3-methyl cyclohexene
138. 6-bromo-3-methyl cycloheptene

139. phenyl hexanoate
140. heptyl acetate (heptyl ethanoate)
141. butyl butanoate
142. cyclohexyl acetate (cyclohexyl ethanoate)
143. *tert*-butyl pentanoate
144. cyclopentyl formate (cyclopentyl methanoate)
145. dimethyl pentyl amine
146. ethylphenyl propyl amine
147. butyl ethyl amine
148. benzyl cyclopentyl methyl amine
149. trimethyl amine
150. *tert*-butyl isobutyl isopropyl amine
151. 3-chloro-N,1-diethyl-2-methyl butylamine
152. 2-*sec*-butyl-1,3-dimethyl hexylamine
153. N-butyl-3-ethyl-4-isopropyl-N-methyl octylamine
154. N,2,3-trimethyl pentamide
155. 3-chloro-N,N,2-trimethyl butamide
156. N-cyclopentyl-2,2-dimethyl propamide
157. 4-phenyl octamide
158. N-hexyl pentamide
159. N-ethyl-N-isobutyl-2-methyl propamide
160. 3,4-dimethyl-5-propoxy aniline
161. m-methoxy pentoxy benzene
162. 4-*tert*-butoxy-1-chloro-2-isopropyl benzene
163. 8-nonen-4-ol
164. trans-8-bromo-4,6-dimethyl-2-octen-1-ol
165. 4-chloro-8,8-dimethyl-1-nonen-5-ol
166. 3-methyl-4-hexyn-3-ol
167. 5-ethyl-4,5,6-trimethyl-1-heptyn-3-ol
168. 1-bromo-1,10-dichloro-3,6-diethyl-2,5-dimethyl-7-decen-4-ol
169. 2-isopropyl-4-methyl-1-hepten-5-yne
170. trans-4,8-dibromo-7-chloro-5-octen-2-yne
171. 3-(1-chloroethyl)-1-penten-4-yne
172. 4-*tert*-butyl-3-methyl-5-hexynal
173. (Z) 3-bromo-6,6-dichloro-7,8-dimethyl-3-nonenal
174. 5-hydroxy-3-methyl pentanal
175. 6,6-dichloro-3-methyl-4-hexyn-2-one
176. 5-bromo-3-cyclohexenone
177. 5-*sec*-butyl-2-methyl-7-octen-4-one
178. 4-(2-bromobutyl)-2-methyl-1,3-cyclohexadione
179. 5-ethyl-4,7-dimethyl-2,6-dioxo octanal
180. 1,4-dichloro-6,6-dimethyl-3,5-heptadione
181. 2-chloro-3-ethyl-4,7-dimethoxy nonane
182. 1-ethoxy-4-propoxy butane
183. 3-ethoxy-2-isobutoxy-4-methyl pentane
184. (E) 5-bromo-4-isopropyl-7,8,9-trimethyl-4-decenoic acid

185. 3-methyl-2,4-dioxo butanoic acid
 186. 2,2-dibromo-3-ethyl-4-pentynoic acid
 187. 5-bromo-6-chloro-2-(1-ethylpropyl)-4-octanoyl chloride
 188. 3,4,5-trimethyl-4-hexenoyl chloride
 189. (4S, 5R) 5-bromo-4-chloro-7-oxo heptanoyl chloride
 190. 3-bromo-N-(3-chloropentyl)-4-methyl-N-phenyl-5-hexemide
 191. (2S, 3R, 4R) 3-ethyl-4-hydroxy-N-isopropyl-N,2-dimethyl pentamide
 192. N-cylopentyl-3-butymide

Chiral Carbons	41. 3	82. 1
1. 1	42. 1	83. 3
2. 1	43. 3	84. 2
3. 2	44. 3	85. 1
4. 0	45. 3	86. 1
5. 2	46. 0	87. 2
6. 4	47. 0	88. 0
7. 3	48. 0	89. 1
8. 1	49. 0	90. 1
9. 4	50. 0	91. 1
10. 1	51. 0	92. 0
11. 1	52. 1	93. 0
12. 3	53. 2	94. 0
13. 2	54. 2	95. 0
14. 2	55. 0	96. 0
15. 3	56. 1	97. 0
16. 3	57. 4	98. 0
17. 2	58. 2	99. 0
18. 0	59. 2	100. 0
19. 2	60. 3	101. 0
20. 2	61. 3	102. 0
21. 3	62. 2	103. 3
22. 2	63. 2	104. 2
23. 2	64. 0	105. 3
24. 3	65. 1	106. 6
25. 1	66. 0	107. 1
26. 3	67. 1	108. 5
27. 2	68. 1	109. 1
28. 3	69. 2	110. 3
29. 3	70. 2	111. 5
30. 3	71. 1	112. 1
31. 1	72. 2	113. 0
32. 3	73. 1	114. 0
33. 2	74. 1	115. 3
34. 2	75. 0	116. 3
35. 1	76. 1	117. 2
36. 0	77. 4	118. 0
37. 2	78. 3	119. 0
38. 4	79. 2	120. 4
39. 4	80. 1	
40. 5	81. 1	