



NAMING ORGANIC COMPOUNDS

Practice Quiz Solutions

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This quiz covers naming organic compounds, from simple linear and branched chains all the way to molecules with more advanced functional groups. It also covers naming compounds from the molecular formula and drawing skeletal structures from the name.

Full Series + Quiz + Cheat Sheet:

[Leah4sci.com/Naming](https://leah4sci.com/naming)

Part 1

- a) 3-methylpentane
- b) 2,3-dimethylpentane
- c) 2,3-dimethylbutane
- d) 3,4-dimethylheptane
- e) octane
- f) 5-ethyl-7-isopropyl-4-methyldecane

Part 2

- a) 3-ethyl-2,2-dimethylhexane
- b) 6-bromohept-3-ene-1-yne
- c) 2,5-dimethyl-1,3-hexadiene
also 2,5-dimethylhex-1,3-diene
- d) cyclopentene
- e) 4-methyl-2-hexyne
also 4-methylhex-2-yne

Part 3

a) ethylcyclohexane

b) isopropylcyclopentane

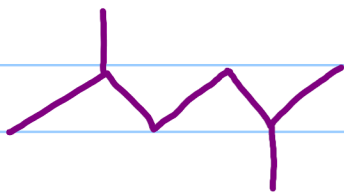
c) secbutylbenzene

d) spiro [5 3] nonane

e) 2-ethyl-1-isopropyl-1,2,3-trimethylcyclohexane

Part 4

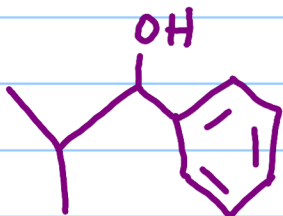
a)



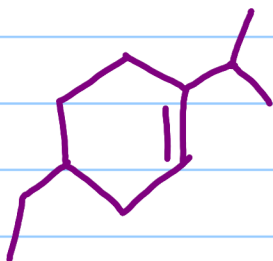
b)



c)



d)



e)



Part 5

a) 1-chloro-2-fluorocyclohexane

b) 2-ethoxybutane

c) 5-cyclobutyl-1,4-hexanediol

also: 5-cyclobutylhexane-1,4-diol

d) 1-ethoxy-3-methoxypropane

e) 7-hydroxy-4-heptene-2-one

also: 7-hydroxyhept-4-ene-2-one

Part 6

a) 6,6-dimethyl-2-hexanol

b) 5-fluoro-1-hexyne

also: 5-fluorohex-1-yne

c) 6-phenyl-2-hexanone

also: 6-phenylhexane-2-one

d) 5-methyl-3-oxo-4-hexenoic acid

also: 5-methyl-3-oxohex-4-enoic acid

Part 7

a) 2-pentene-2-thiol

also: pent-2-ene-2-thiol

b) methyl 2-butenoate

also: methyl but-2-enoate

c) 4-cyclopentyl-1-pentanamine

also: 4-cyclopentylpentane-1-amine

d) 2-ethyl-8-methyl-4-phenyloctanoic acid

e) 6-hydroxy-5-oxohexanoic acid

f) N-ethyl-N-methyl-2-butanamine

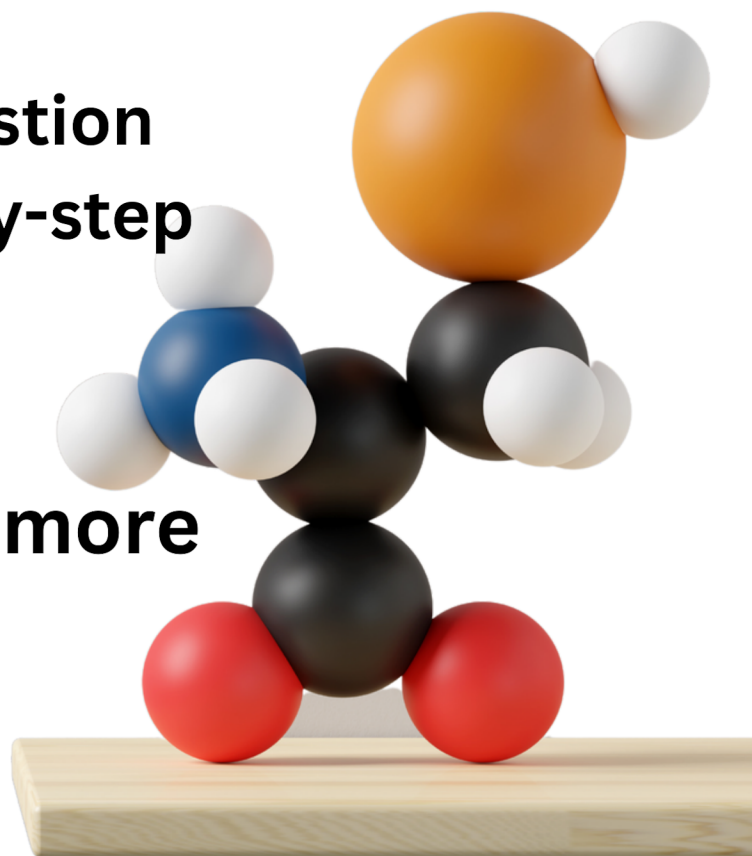
also: N-ethyl-N-methylbutane-2-amine

g) 3-hydroxy-4-oxobutanoic acid

h) isopropyl-2-methylpropanoate

**Want to see each question
broken down in step-by-step
detail?**

**Curious to see even more
explanations?**



**In-depth video solutions with detailed
explanations in the [Organic Chemistry
Study Hall](#).**

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