

Functional group example answers:

Alkane: 2, 3-dibromo-4-ethyl-3,5-dimethyl hexane

Alkene: 4,4,6-trimethyl-5-chloro-2-heptene

Alkyne: 2,2-dimethyl-3-hexyne

Alcohol: 2-chloro-2,4-dimethyl-1-pentanol

Ether: ethyl propyl ether

Aldehyde: 3-chloro-3,4,5-trimethyl hexanal

Ketone: 2,2-dichloro-5-methyl-3-hexanone

Carboxylic acid: 2,3-dichloro-4-methyl pentanoic acid

Ester: ethyl butanoate

Thiol: 4-chloro-4,5-dimethyl-2-heptanethiol

Thioether: butyl propyl thioether