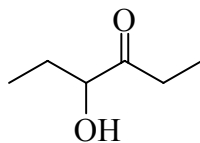
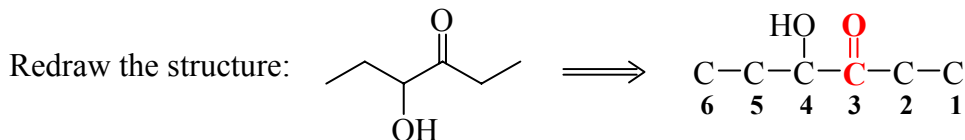


VIII.D KETONES [RC(=O)R¹]

Ketones are treated in the same way as the carboxylic acids and aldehydes except that the **site of the ketone group MUST be included in the name**. The family ending is 'one' and the prefix is 'oxo'. Ketones are lower priority than carboxylic acids, and their derivatives, and aldehydes.

Examples

1. Give the IUPAC name for

**OBSERVATIONS**

Fill out the

template

	OBSERVATION	IMPLICATION
Parent Group and Site	Ketone at C-3	3...-one
Longest Carbon Chain/Ring	6 Carbons	hex...
# C=C or C≡C bonds and Site	None	3-hexan
Final Word		3-hexanone
Substituents and Sites	OH at C-4	4-hydroxy-
Alphabetizing substituents		4-hydroxy-

SOLUTION Compound is: 4-hydroxy-3-hexanone