

Homologous Series	Prefix or Suffix	Functional Group	Example
alkanes	--ane	$\begin{array}{c} \diagup \\ \text{C} - \text{H} \\ \diagdown \end{array}$	ethane $\text{C}_2\text{H}_6$
alkenes	--ene	$\begin{array}{c} \diagdown \quad \diagup \\ \text{C} = \text{C} \\ \diagup \quad \diagdown \end{array}$	ethene $\text{C}_2\text{H}_4$
haloalkanes	halo--	-Cl -Br -I	chloroethane $\text{CH}_3\text{CH}_2\text{Cl}$
alcohols	--ol	-OH	ethanol or $\text{C}_2\text{H}_5\text{OH}$

4

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4

$$\frac{14) \cos 3\pi}{3} \quad \frac{6}{6}$$

$$15) \cos -\pi \quad 13) \csc 5\pi$$