

Homologous Series	Prefix or Suffix	Functional Group	Example
alkanes	--ane	$\begin{array}{c} \diagup \\ \text{C} - \text{H} \\ \diagdown \end{array}$	ethane C_2H_6
alkenes	--ene	$\begin{array}{c} \diagup \quad \diagdown \\ \text{C} = \text{C} \\ \diagdown \quad \diagup \end{array}$	ethene C_2H_4
haloalkanes	halo--	-Cl -Br -I	chloroethane $\text{CH}_3\text{CH}_2\text{Cl}$
alcohols	--ol hydroxyl--	-OH	ethanol or hydroxyethane $\text{CH}_3\text{CH}_2\text{OH}$
ethers	alkoxy--	-OR	methoxymethane CH_3OCH_3
aldehydes	--al	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C} \\ \diagdown \\ \text{H} \end{array}$	ethanal CH_3CHO
ketones	--one	$\begin{array}{c} \diagup \quad \diagdown \\ \text{C} = \text{O} \end{array}$	propanone CH_3COCH_3
carboxylic acid	--oic acid	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C} \\ \diagdown \\ \text{H} \end{array}$	ethanoic acid CH_3COOH
amines	amino-- --amine	-NH	aminomethane methylamine CH_3NH_2
amides	--amide	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C} \\ \diagdown \\ \text{NH} \end{array}$	ethanamide CH_3CONH_2
nitrils	--nitrile	$-\text{C}\equiv\text{N}$	propanenitrile $\text{CH}_3\text{CH}_2\text{CN}$