Families of Organic Compounds

Class	Alkanes	Alkenes	Alkynes	Aromatics (Arenes)	Halogeno-alkanes	Alcohols	Ether	Aldehyde	Ketone	Carboxylic Acids	Esters	Amines	Amides
Example Name	H_3C-CH_3 Ethane	H_2C=CH_2 ethene	HC≡CH ethyne	C_6H_6 benzene	CH_3CH_2Cl chloro-ethane	CH_3CH_2OH ethanol	CH_3OCH_3 methoxy-methane	CH_3CHO ethanal	CH_3COCH_3 propanone	CH_3COOH ethanoic acid	$HCOOCH_3$ methyl-methanoate	CH_3NH_2 amino-methane	CH_3CO-NH_2 ethan-amide
VSEPR Shape	tetra-hedral	planar triangular	linear	planar	tetrahedral	angular	angular	planar triangular	planar triangular	planar triangular	planar triangular	pyrami-dal	planar triangular pyramidal
Function al Group	----------	π-bond	π-bonds	resonance structure									
General Formula	C_nH_{2n+2}	C_nH_{2n}	C_nH_{2n-2}	C_nH_n	R – Cl (R = alkyl)	R – OH	R–O– R	R-CHO	R-COR'	R-COO-H	R-COOR'	R-NH_2	R-CO-NH_2
Other Info.	------	--------	C_2H_2 is important	carcinogenic	anaesthetics, propellents lubricants		anaesthetic	preservatives	solvents, waste products of metabolism		flavour agents	fishy smells, meat aromas	polymers