NAMING ALKANES, ALKENES, AND ALKYNES

Structure	General Formula	Naming	Type of Bonding	Saturation	Simple Structure
alkynes	$C_{\scriptscriptstyle{n}}H_{\scriptscriptstyle{n}}$	ends with the suffix -yne (sometimes referres to as acetylenes)	Contains at least one carbon to carbon triple bond	unsaturated	H — C≡C — H ethyne or acetylene
alkenes	C_nH_{2n}	ends with the suffix -ene	Contains at least one carbon to carbon double bond	Unsaturated - carbon atoms do not hold the highest allowed amount of hydrogen atoms	H H H ethylene or ethene
alkanes	C_nH_{2n+2}	end with the suffix -ane	Contains all single carbon to hydrogen bonds	Saturated - all carbon atoms hold the highest allowed amount of hydrogen atoms.	H H-C-H H methane