

## Writing and Naming Hydrocarbons

Number of Carbon Atoms	Prefix	ALKANE All Single Bonds (C-C) $C_nH_{2n+2}$		ALKENE One Double Bond (C=C) $C_nH_{2n}$		ALKYNE One Triple Bond (C≡C) $C_nH_{2n-2}$		BENZENE Carbon rings $C_nH_{2n-6}$	
		Name	Formula	Name	Formula	Name	Formula	Name	Formula
1	Meth-	Methane	CH <sub>4</sub>	--	--	--	--	--	--
2	Eth-	Ethane	C <sub>2</sub> H <sub>6</sub>	Ethene (Ethylene)	C <sub>2</sub> H <sub>4</sub>	Ethyne (Acetylene)	C <sub>2</sub> H <sub>2</sub>	--	--
3	Prop-	Propane	C <sub>3</sub> H <sub>8</sub>	Propene (Propylene)	C <sub>3</sub> H <sub>6</sub>	Propyne (Methylacetylene)	C <sub>3</sub> H <sub>4</sub>	--	--
4	But-	Butane	C <sub>4</sub> H <sub>10</sub>	Butene (Butylene)	C <sub>4</sub> H <sub>8</sub>	Butyne	C <sub>4</sub> H <sub>6</sub>	--	--
5	Pent-	Pentane	C <sub>5</sub> H <sub>12</sub>	Pentene	C <sub>5</sub> H <sub>10</sub>	Pentyne	C <sub>5</sub> H <sub>8</sub>	--	--
6	Hex-	Hexane	C <sub>6</sub> H <sub>14</sub>	Hexene	C <sub>6</sub> H <sub>12</sub>	Hexyne	C <sub>6</sub> H <sub>10</sub>	Benzene	C <sub>6</sub> H <sub>6</sub>
7	Hept-	Heptane	C <sub>7</sub> H <sub>16</sub>	Heptene	C <sub>7</sub> H <sub>14</sub>	Heptyne	C <sub>7</sub> H <sub>12</sub>	Toluene (Methylbenzene)	C <sub>7</sub> H <sub>8</sub>
8	Oct-	Octane	C <sub>8</sub> H <sub>18</sub>	Octene	C <sub>8</sub> H <sub>16</sub>	Octyne	C <sub>8</sub> H <sub>14</sub>	Xylene (Dimethylbenzene)	C <sub>8</sub> H <sub>10</sub>
9	Non-	Nonane	C <sub>9</sub> H <sub>20</sub>	Nonene	C <sub>9</sub> H <sub>18</sub>	Nonyne	C <sub>9</sub> H <sub>16</sub>	Mesitylene (Trimethylbenzene)	C <sub>9</sub> H <sub>12</sub>
10	Dec-	Decane	C <sub>10</sub> H <sub>22</sub>	Decene	C <sub>10</sub> H <sub>20</sub>	Decyne	C <sub>10</sub> H <sub>18</sub>	Durene (Tetramethylbenzene)	C <sub>10</sub> H <sub>14</sub>