

# Aldehydes Ketones Acids List

## Aldehydes, Ketones, and Carboxylic Acids – First Six Members Each

(With molecular formula, common names, and IUPAC names)

### Aldehydes (General formula: $C_nH_{2n}O$ )

No.	Molecular Formula	Common Name	IUPAC Name
1	CH <sub>2</sub> O	Formaldehyde	Methanal
2	C <sub>2</sub> H <sub>4</sub> O	Acetaldehyde	Ethanal
3	C <sub>3</sub> H <sub>6</sub> O	Propionaldehyde	Propanal
4	C <sub>4</sub> H <sub>8</sub> O	Butyraldehyde	Butanal
5	C <sub>5</sub> H <sub>10</sub> O	Valeraldehyde	Pentanal
6	C <sub>6</sub> H <sub>12</sub> O	Caproaldehyde	Hexanal

### Ketones (General formula: $C_nH_{2n}O$ , $n \geq 3$ )

No.	Molecular Formula	Common Name	IUPAC Name
1	C <sub>3</sub> H <sub>6</sub> O	Acetone	Propanone
2	C <sub>4</sub> H <sub>8</sub> O	Methyl ethyl ketone (MEK)	Butan-2-one
3	C <sub>5</sub> H <sub>10</sub> O	Diethyl ketone	Pentan-3-one
4	C <sub>6</sub> H <sub>12</sub> O	Methyl propyl ketone	Hexan-2-one
5	C <sub>6</sub> H <sub>12</sub> O	Di-n-propyl ketone	Hexan-3-one
6	C <sub>7</sub> H <sub>14</sub> O	Methyl butyl ketone	Heptan-2-one

### Carboxylic Acids (General formula: $C_nH_{2n}O_2$ )

No.	Molecular Formula	Common Name	IUPAC Name
1	HCOOH	Formic acid	Methanoic acid
2	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	Acetic acid	Ethanoic acid
3	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	Propionic acid	Propanoic acid
4	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Butyric acid	Butanoic acid
5	C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>	Valeric acid	Pentanoic acid
6	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Caproic acid	Hexanoic acid

✓ This list covers the **first six straight-chain members** of each homologous series with both their **common** and **IUPAC names**.

