

Names of Substituents

These substituent names are used in common names, or in substitutive names when they are attached to the principle chain but don't have priority.

Groups containing only C (end in yl)

methyl $\text{X}-\text{CH}_3$

ethyl $\text{X}-\text{CH}_2\text{CH}_3$

propyl $\text{X}-\text{CH}_2\text{CH}_2\text{CH}_3$

butyl $\text{X}-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ etc

cyclopropyl $\text{X}-\text{C}_3\text{H}_5$

cyclobutyl $\text{X}-\text{C}_4\text{H}_7$ etc

isopropyl $\text{X}-\text{CH}(\text{CH}_3)_2$

isobutyl $\text{X}-\text{CH}_2\text{CH}(\text{CH}_3)_2$

sec-butyl $\text{X}-\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$

tert-butyl $\text{X}-\text{C}(\text{CH}_3)_3$

vinyl $\text{X}-\text{CH}=\text{CH}_2$

allyl $\text{X}-\text{CH}_2\text{CH}=\text{CH}_2$

ethynyl $\text{X}-\text{C}\equiv\text{CH}$

propargyl $\text{X}-\text{CH}_2\text{C}\equiv\text{CH}$

phenyl $\text{X}-\text{C}_6\text{H}_5$

benzyl $\text{X}-\text{CH}_2\text{C}_6\text{H}_5$

Groups containing O, N, and halogens (end in o or y)

hydroxy $\text{X}-\text{OH}$

methoxy $\text{X}-\text{OCH}_3$

ethoxy $\text{X}-\text{OCH}_2\text{CH}_3$

fluoro $\text{X}-\text{F}$

chloro $\text{X}-\text{Cl}$

bromo $\text{X}-\text{Br}$

iodo $\text{X}-\text{I}$

nitro $\text{X}-\text{NO}_2 = \text{X}-\text{N}^+(\text{O}^-)_2$

oxo $\text{C}=\text{O}$

amino $\text{X}-\text{NH}_2$

cyano $\text{X}-\text{C}\equiv\text{N}$