

# McGraw-Hill Dictionary of CHEMISTRY

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**allylcarbamide** *See* allylurea.

**allyl-** A prefix used in names of compounds whose structure contains an allyl cation.

**allylacetone**  $\text{CH}_2\text{CHCH}_2\text{CH}_2\text{COCH}_3$  A colorless liquid, soluble in water and organic solvents; used in pharmaceutical synthesis, perfumes, fungicides, and insecticides.

**allyl alcohol**  $\text{CH}_2\text{CHCH}_2\text{OH}$  Colorless, pungent liquid, boiling at  $96^\circ\text{C}$ ; soluble in water; made from allyl chloride by hydrolysis. Also known as 2-propen-1-ol.

**allylamine**  $\text{CH}_2\text{CHCH}_2\text{NH}_2$  A yellow oil that is miscible with water; boils at  $58^\circ\text{C}$ ; prepared from mustard oil. Also known as 2-propen-1-amine.

**allyl bromide**  $\text{C}_3\text{H}_5\text{Br}$  A colorless to light yellow, irritating toxic liquid with a boiling point of  $71.3^\circ\text{C}$ ; soluble in organic solvents; used in organic synthesis and for the manufacture of synthetic perfumes. Also known as bromoallylene; 3-bromo-1-propene.

**allyl cation** A carbonium cation with a structure usually represented as  $\text{CH}_2=\text{CH}-\text{CH}_2^+$ ; attachment site is the saturated carbon atom.

**allyl chloride**  $\text{CH}_2\text{CHCH}_2\text{Cl}$  A volatile, pungent, toxic, flammable, colorless liquid, boiling at  $46^\circ\text{C}$ ; insoluble in water; made by chlorination of propylene at high temperatures. Also known as 3-chloro-1-propene.

**allyl cyanide**  $\text{C}_4\text{H}_5\text{N}$  A liquid with an onionlike odor and a boiling point of  $119^\circ\text{C}$ ; slightly soluble in water; used as a cross-linking agent in polymerization. Also known as 3-butenenitrile; vinylacetoneitrile.

**allylene**  $\text{CH}_3\text{C}:\text{CH}$  An acetylenic, three-carbon hydrocarbon; a colorless gas boiling at  $-24^\circ\text{C}$ ; soluble in ether. Also known as methyl acetylene; propyne.

**allylic rearrangement** In a three-carbon molecule, the shifting of a double bond from the 1,2 carbon position to the 2,3 position, with the accompanying migration of an entering substituent or substituent group from the third carbon to the first.

**allyl isosulfocyanate** *See* allyl isothiocyanate.

**allyl isothiocyanate**  $\text{CH}_2\text{CH}:\text{CH}_2\text{NCS}$  A pungent, colorless to pale-yellow liquid; soluble in alcohol, slightly soluble in water; irritating odor; boiling point  $152^\circ\text{C}$ ; used as a fumigant and as a poison gas. Also known as allyl isosulfocyanate; mustard oil.

**allyl mercaptan**  $\text{CH}_2\text{CHCH}_2\text{SH}$  A colorless liquid with a boiling point of  $67-68^\circ\text{C}$ ; soluble in ether and alcohol; used as intermediate in pharmaceutical manufacture. Also known as allyl thiol; 2-propene-1-thiol.

**allyl plastic** *See* allyl resin.

**allyl resin** Any of a class of thermosetting synthetic resins derived from esters of allyl alcohol or allyl chloride; used in making cast and laminated products. Also known as allyl plastic.

**allyl sulfide**  $(\text{CH}_2\text{CHCH}_2)_2\text{S}$  A colorless liquid with a garliclike odor and a boiling point of  $139^\circ\text{C}$ ; used in synthetic oil of garlic. Also known as diallyl sulfide; oil garlic; thioallyl ether.