McGraw-Hill Dictionary of CHEMISTRY

Sybil P. Parker

Editor in Chief

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- allycarbamide See allylurea.
- allyl- A prefix used in names of compounds whose structure contains an allyl cation.
- allylacetone CH₂CHCH₂CH₂COCH₃ A colorless liquid, soluble in water and organic solvents; used in pharmaceutical synthesis, perfumes, fungicides, and insecticides.
- allyl alcohol CH₂CHCH₂OH Colorless, pungent liquid, boiling at 96°C; soluble in water; made from allyl chloride by hydrolysis. Also known as 2-propen-
- allylamine CH₂CHCH₂NH₂ A yellow oil that is miscible with water; boils at 58°C; prepared from mustard oil. Also known as 2-propen-1-amine.
- allyl bromide C₃H₅Br A colorless to light yellow, irritating toxic liquid with a boiling point of 71.3°C; soluble in organic solvents; used in organic synthesis and for the manufacture of synthetic perfumes. Also known as bromoallylene; 3-bromo-1-propene.
- ally cation A carbonium cation with a structure usually represented as CH₂=CH-CH₂⁺; attachment site is the saturated carbon atom.
- allyl chloride CH2CHCH2Cl A volatile, pungent, toxic, flammable, colorless liquid, boiling at 46°C; insoluble in water; made by chlorination of propylene at high temperatures. Also known as 3-chloro-1-propene.
- allyl cyanide C₄H₅N A liquid with an onionlike odor and a boiling point of 119°C; slightly soluble in water; used as a cross-linking agent in polymerization. Also known as 3-butenenitrile; vinylacetonitrile.
- allylene CH₂C:CH An acetylenic, three-carbon hydrocarbon; a colorless gas boiling at -24° C; soluble in ether. Also known as methyl acetylene; propine; 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 CH₂CH:CH₂NCS A pungent, colorless to pale-yellow liquid: soluble in alcohol, slightly soluble in water; irritating odor; boiling point 152°C; used as a fumigant and as a poison gas. Also known as allyl isosulfocyanate; mustard oil.
- allyl mercaptan CH₂CHCH₂SH A colorless liquid with a boiling point of 67-68°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 (CH2CHCH2)2S A colorless liquid with a garliclike odor and a boiling point of 139°C; used in synthetic oil of garlic. Also known as diallyl sulfide; oil garlic; thioallyl ether.

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