

Download Line Angle Formula Chemistry

Condensed Structural and Line

Learning Objectives. The ultimate condensed formula is a line-angle formula, in which carbon atoms are implied at the corners and ends of lines, and each carbon atom is understood to be attached to enough hydrogen atoms to give each carbon atom four bonds. For example, we can represent pentane ($\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$) and isopentane $[(\text{CH}_3)_2\text{CHCH}_2\text{CH}_3]$.

Skeletal formula

The skeletal formula, also called line-angle formula or shorthand formula, of an organic compound is a type of molecular structural formula that serves as a shorthand representation of a molecule's bonding and some details of its molecular geometry.

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Looking at this Line-Angle Formula drawing we see a line. Each end of the line has a carbon. Since the carbons are connected by a single bond, each carbon has three hydrogens attached to it. General Rule #2: Each carbon molecule may accommodate four "things" attached to it via a single bond.

Solution: Draw the line

Solution: Draw the line-angle structures of the following molecules a) $(\text{CH}_3)_2\text{CHCOCH}(\text{CH}_3)_2$ b) $\text{CH}_3\text{CO}_2\text{H}$
Problem Draw the line-angle structures of the following molecules

Sample Line

Sample Line-Angle Formula Problems Write out the molecular formula for the following molecules 1) 2) 3) OH
4) N O HO

Chemistry formulae

There are a few L a T e X packages to create chemistry formulae: chemfig, ochem, streetex, and xymtex. The most intuitive is probably the chemfig package. This article explains how to use the chemfig package to create chemical formulas in L a T e X.

How to Draw Skeletal Formulae of Organic Molecules

In organic chemistry, skeletal formulae are the most abbreviated diagrammatic descriptions of molecules in common use. They look very bare because in skeletal formulae the hydrogen atoms (attached directly to carbons) are removed, leaving just a 'carbon skeleton' with functional groups attached to it.