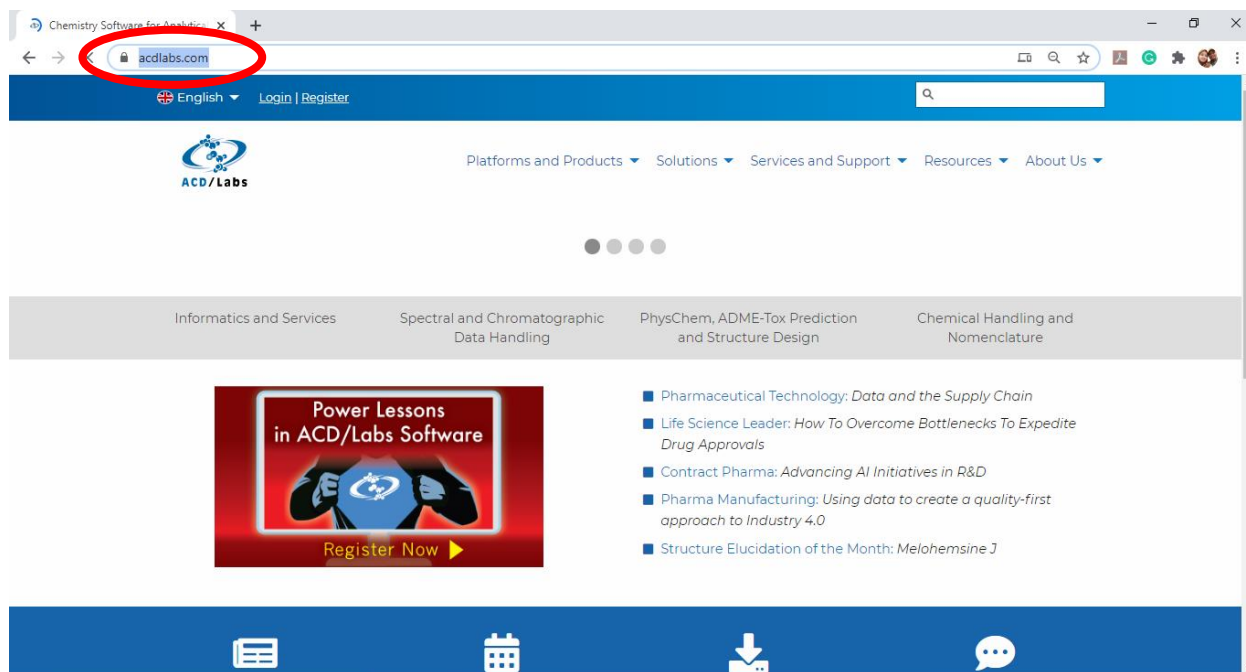
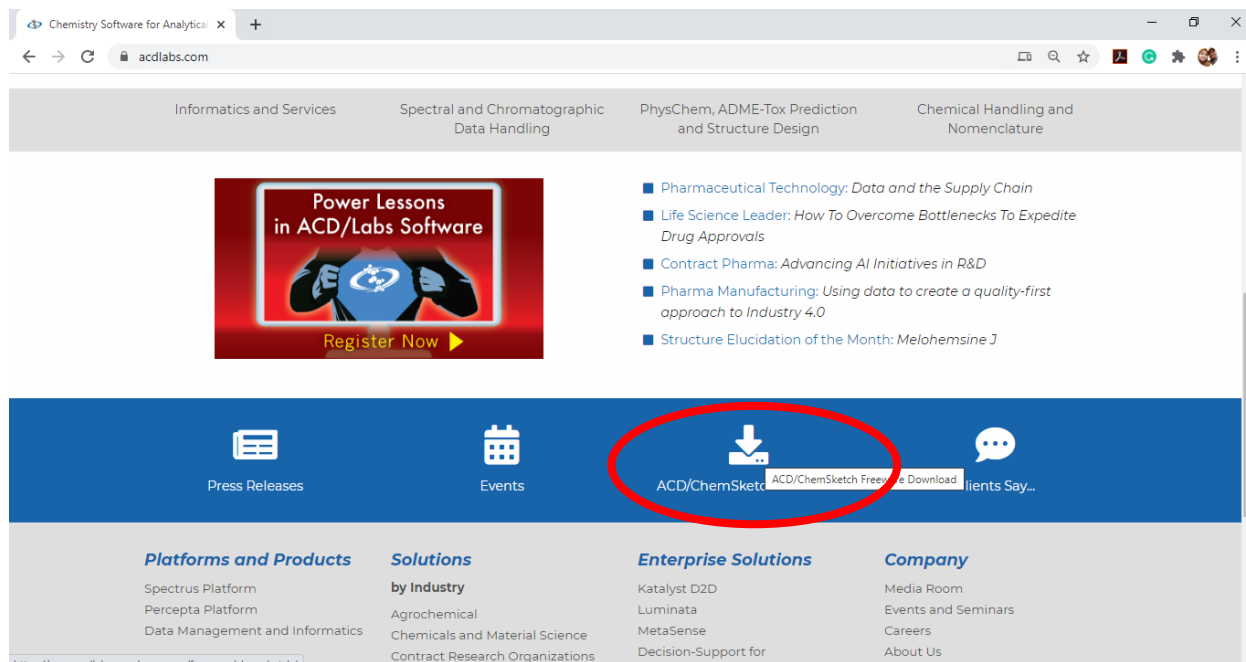


BAB I. Cara Install ChemSketch

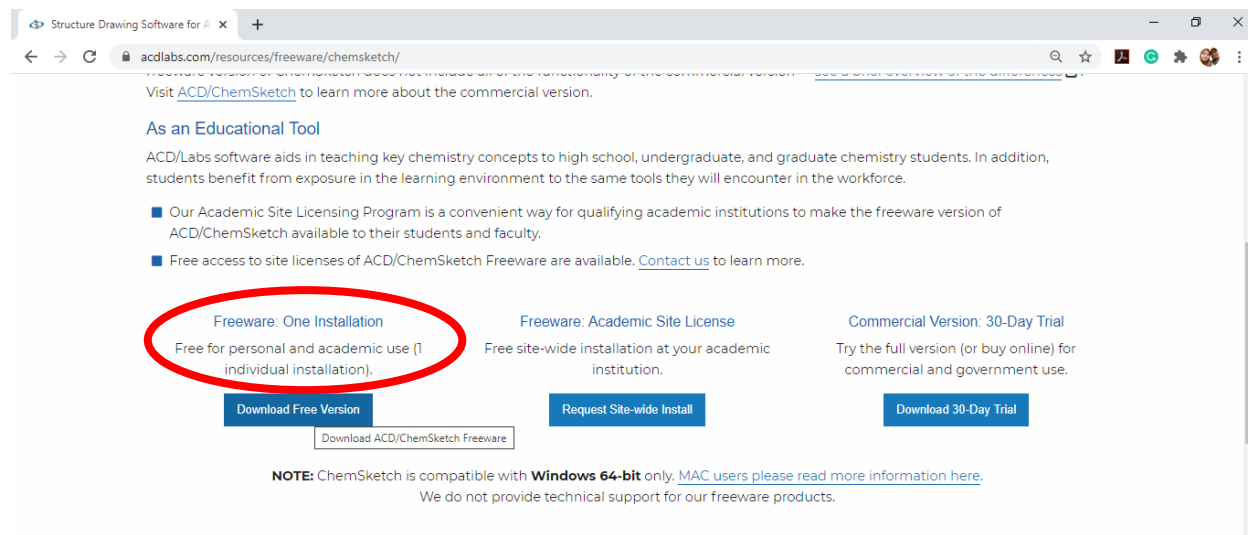
I.1. Buka situs/ web <https://www.acdlabs.com/>



I.2. Klik ACD/ChemSketch Freeware



I.3. Klik Download Free Version



Structure Drawing Software for A x +

acdlabs.com/resources/freeware/chemsketch/

Visit [ACD/ChemSketch](#) to learn more about the commercial version.

As an Educational Tool

ACD/Labs software aids in teaching key chemistry concepts to high school, undergraduate, and graduate chemistry students. In addition, students benefit from exposure in the learning environment to the same tools they will encounter in the workforce.

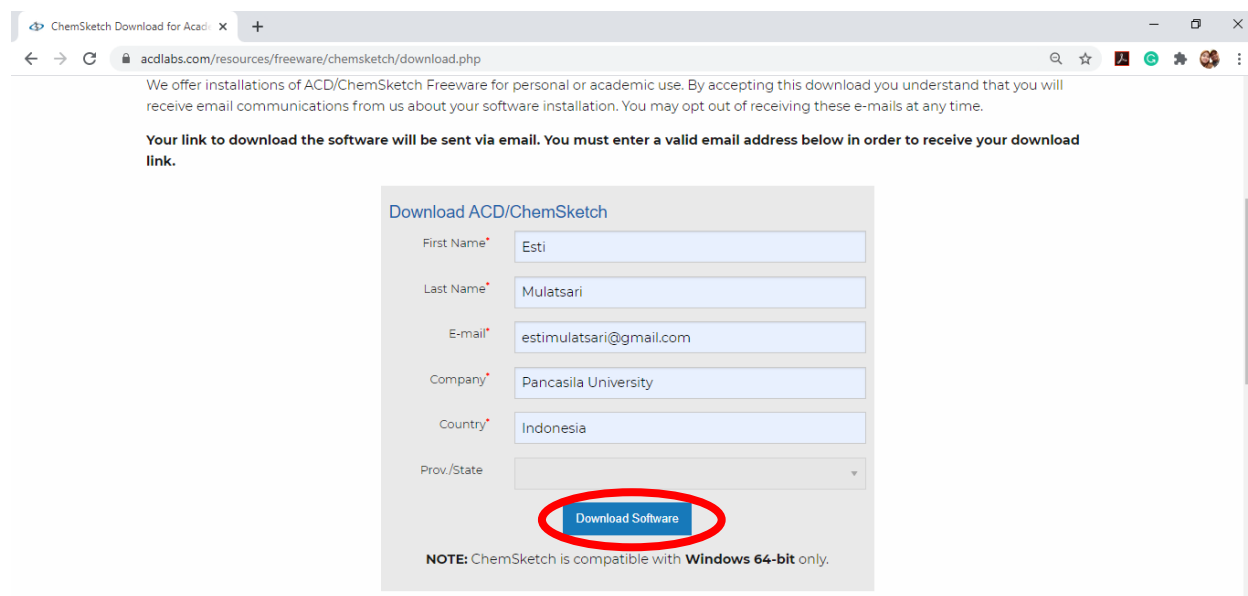
- Our Academic Site Licensing Program is a convenient way for qualifying academic institutions to make the freeware version of ACD/ChemSketch available to their students and faculty.
- Free access to site licenses of ACD/ChemSketch Freeware are available. [Contact us](#) to learn more.

Freeware: One Installation Free for personal and academic use (1 individual installation).	Freeware: Academic Site License Free site-wide installation at your academic institution.	Commercial Version: 30-Day Trial Try the full version (or buy online) for commercial and government use.
Download Free Version	Request Site-wide Install	Download 30-Day Trial

Download ACD/ChemSketch Freeware

NOTE: ChemSketch is compatible with **Windows 64-bit** only. [MAC users please read more information here.](#)
We do not provide technical support for our freeware products.

I.4. Isi isian data yang disediakan → Klik Dowload Software



ChemSketch Download for Acadi x +

acdlabs.com/resources/freeware/chemsketch/download.php

We offer installations of ACD/ChemSketch Freeware for personal or academic use. By accepting this download you understand that you will receive email communications from us about your software installation. You may opt out of receiving these e-mails at any time.

Your link to download the software will be sent via email. You must enter a valid email address below in order to receive your download link.

Download ACD/ChemSketch

First Name*

Last Name*

E-mail*

Company*

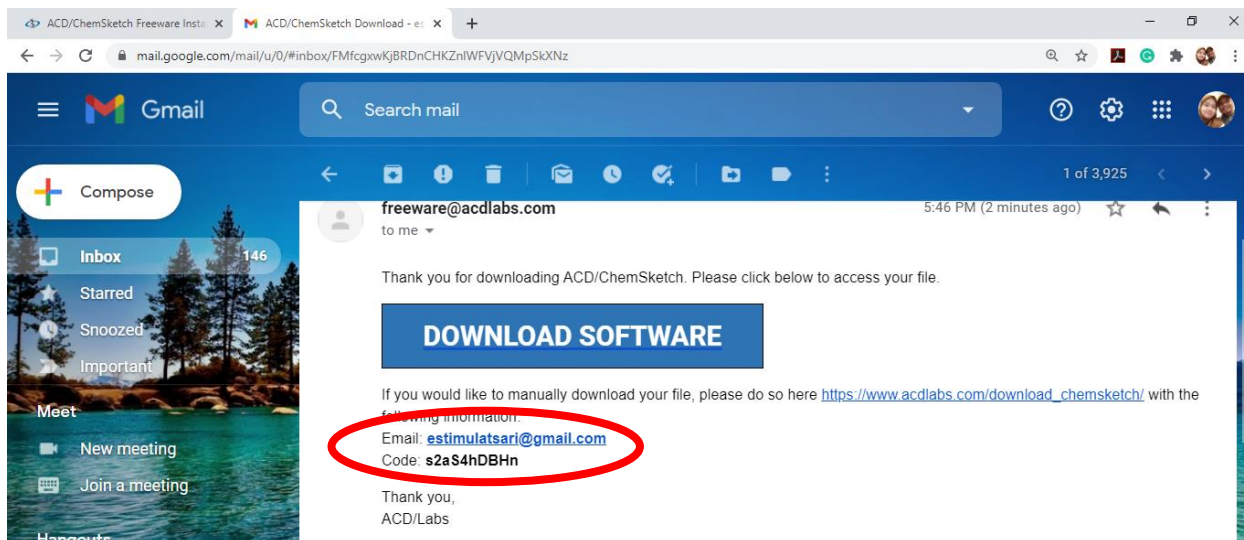
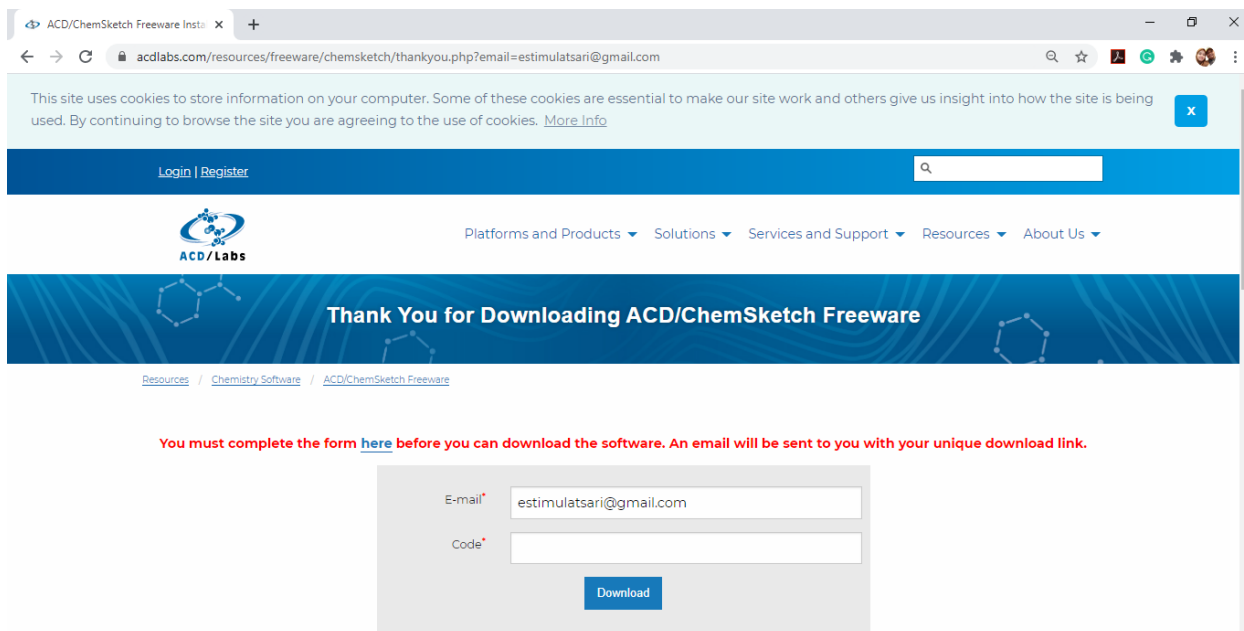
Country*

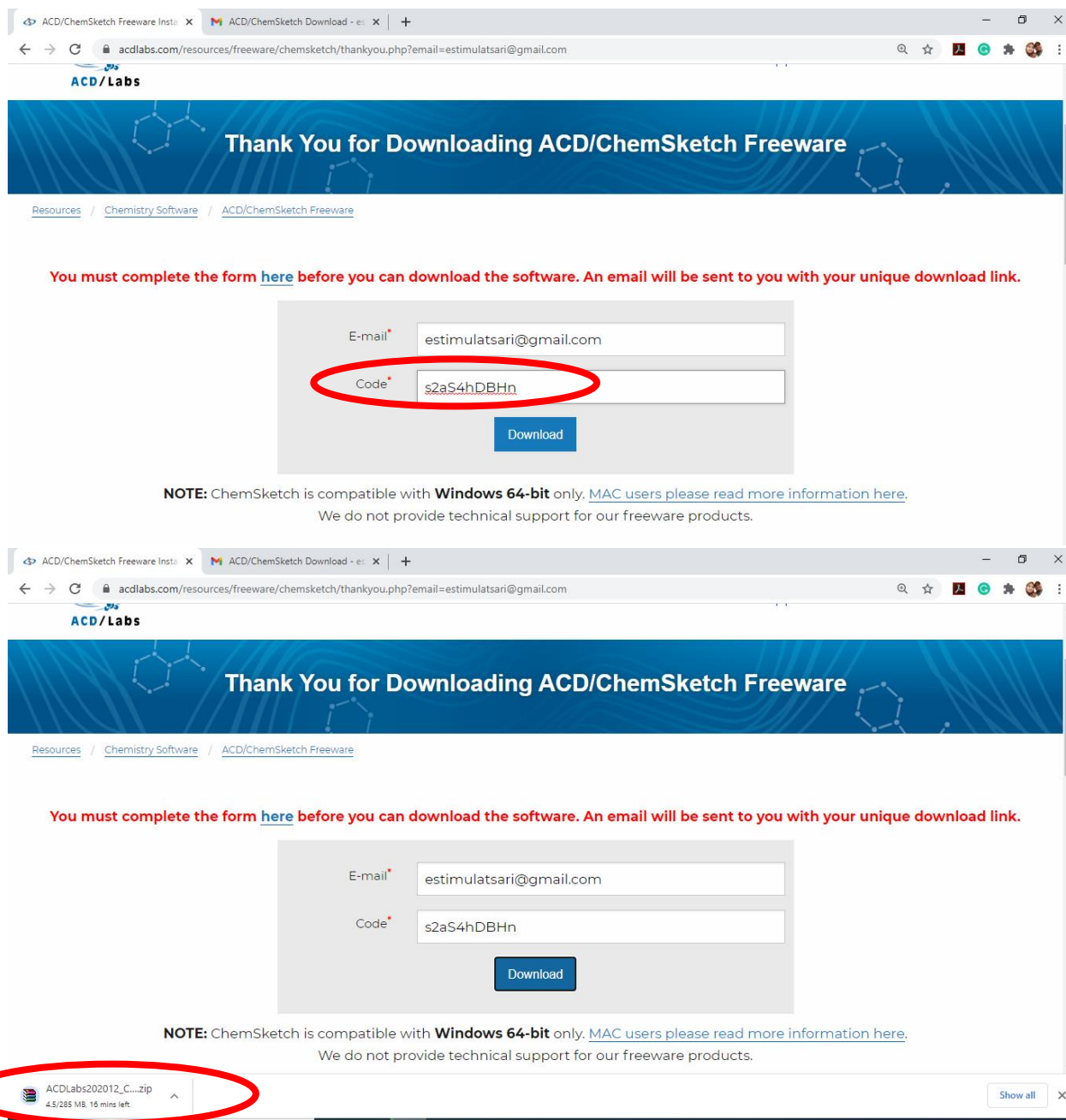
Prov./State

[Download Software](#)

NOTE: ChemSketch is compatible with **Windows 64-bit** only.

I.5. Secara otomatis anda akan menerima kode unik di email yang anda isikan di data, Lanjutkan dengan membuka email dan isikan code pada kolom code selanjutnya klik Download , secara otomatis akan mendownload software





ACD/Labs

Thank You for Downloading ACD/ChemSketch Freeware

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You must complete the form [here](#) before you can download the software. An email will be sent to you with your unique download link.

E-mail* estimulatsari@gmail.com

Code* s2aS4hDBHn

Download

NOTE: ChemSketch is compatible with **Windows 64-bit** only. [MAC users please read more information here.](#)
We do not provide technical support for our freeware products.

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You must complete the form [here](#) before you can download the software. An email will be sent to you with your unique download link.

E-mail* estimulatsari@gmail.com

Code* s2aS4hDBHn

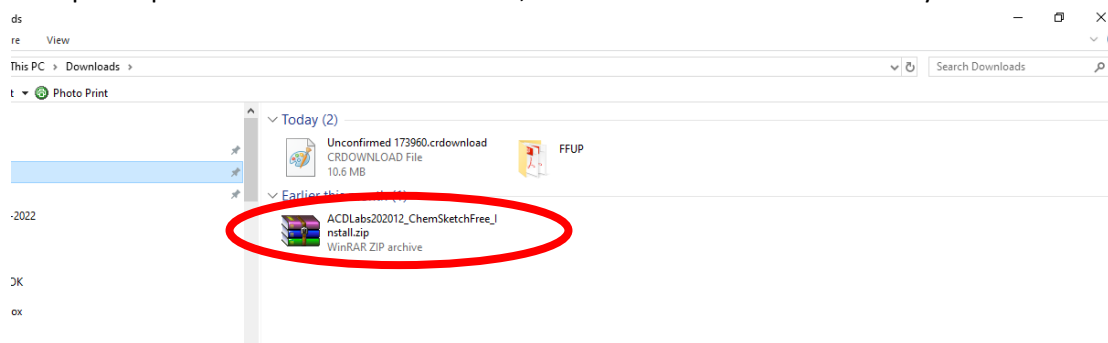
Download

NOTE: ChemSketch is compatible with **Windows 64-bit** only. [MAC users please read more information here.](#)
We do not provide technical support for our freeware products.

ACDLabs202012_C...zip
4.5/285 MB, 16 mins left

Show all

I.5. Apabila proses download sudah selesai, Software bisa diakses di Directory



ds

re View

This PC > Downloads >

Photo Print

Today (2)

- Unconfirmed 173960.crdownload
CRDOWNLOAD File
10.6 MB
- FFUP

Earlier this month (1)

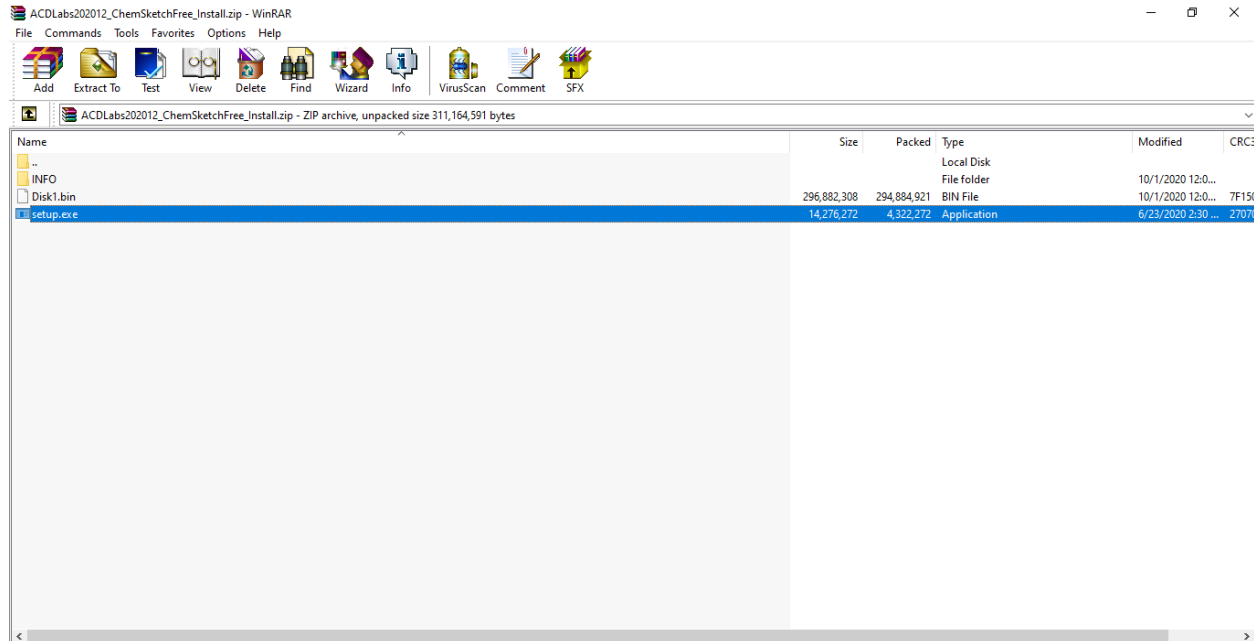
- ACDLabs202012_ChemSketchFree_Install.zip
WinRAR ZIP archive

-2022

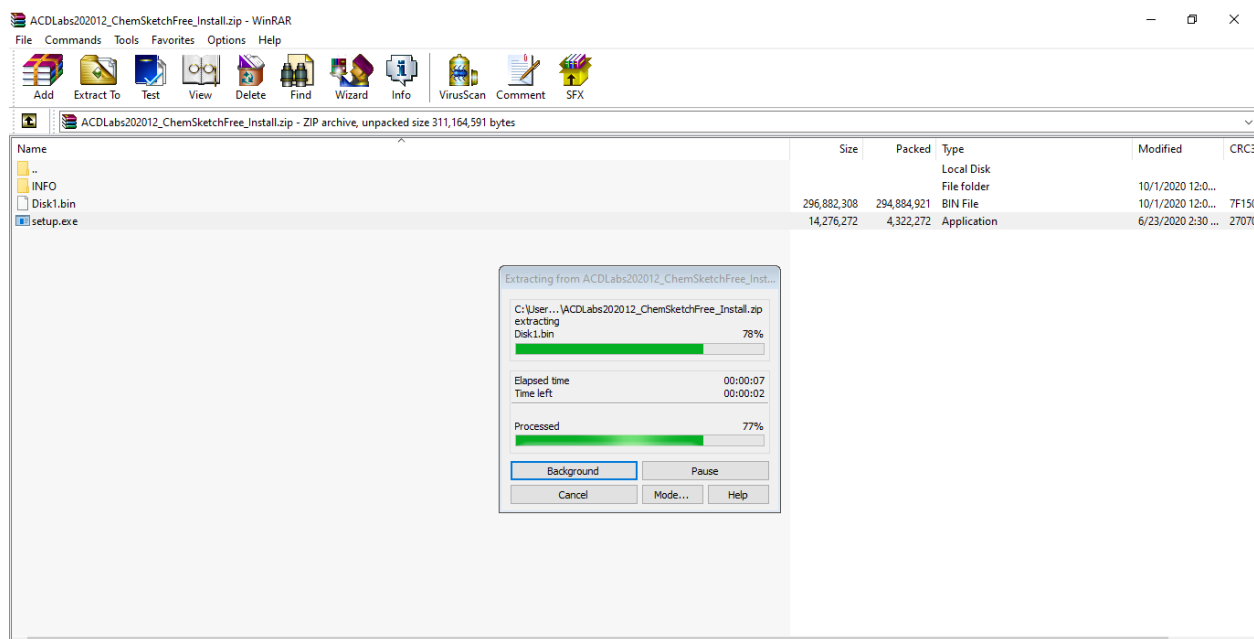
DK

ox

I.6. Buka File, Klik setup.exe hingga muncul proses install dimulai



I.7. Tampilan proses intallasi dimulai, ikuti command yang muncul setiap tahapnya hingga Finish



BAB II. Mengenal Tools Tools dalam ChemSketch

II.1. Pastikan bahwa ChemSketch sudah terinstall di PC masing – masing

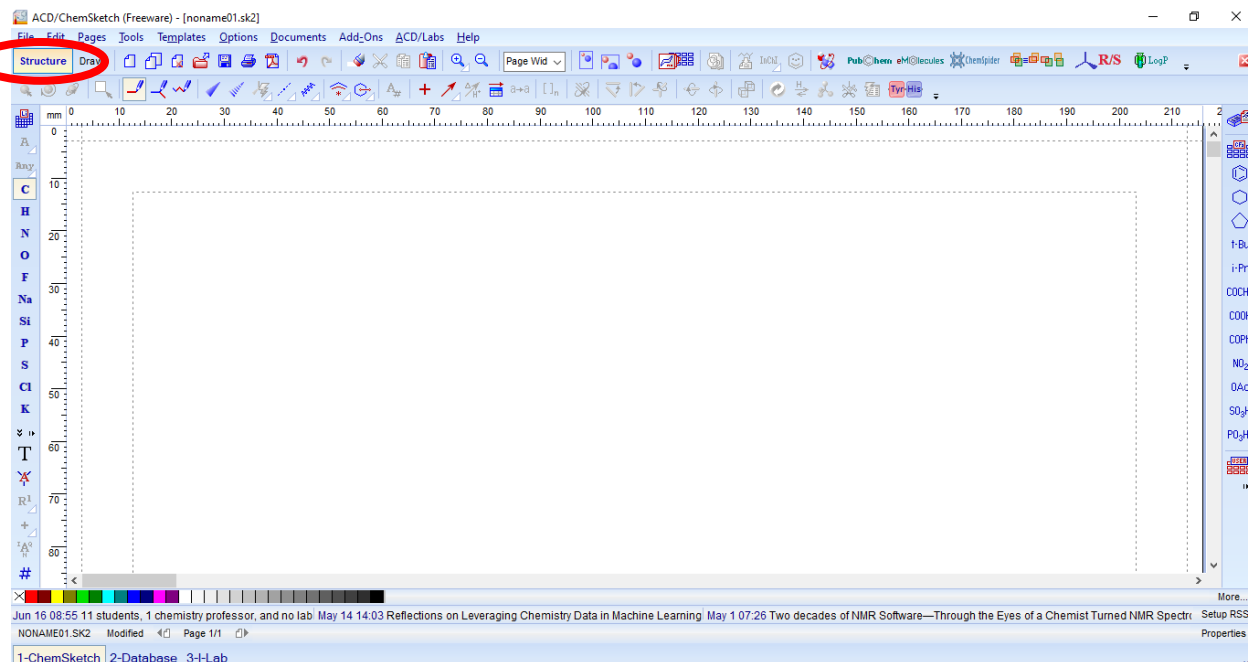
Pada lembar kerja, ChemSketch tersedia dua mode yaitu mode Structure yang memiliki fungsi untuk menggambar stuktur – struktur molekul, dan mode Draw untuk menuliskan persamaan reaksi atau gambar gambar lainnya.



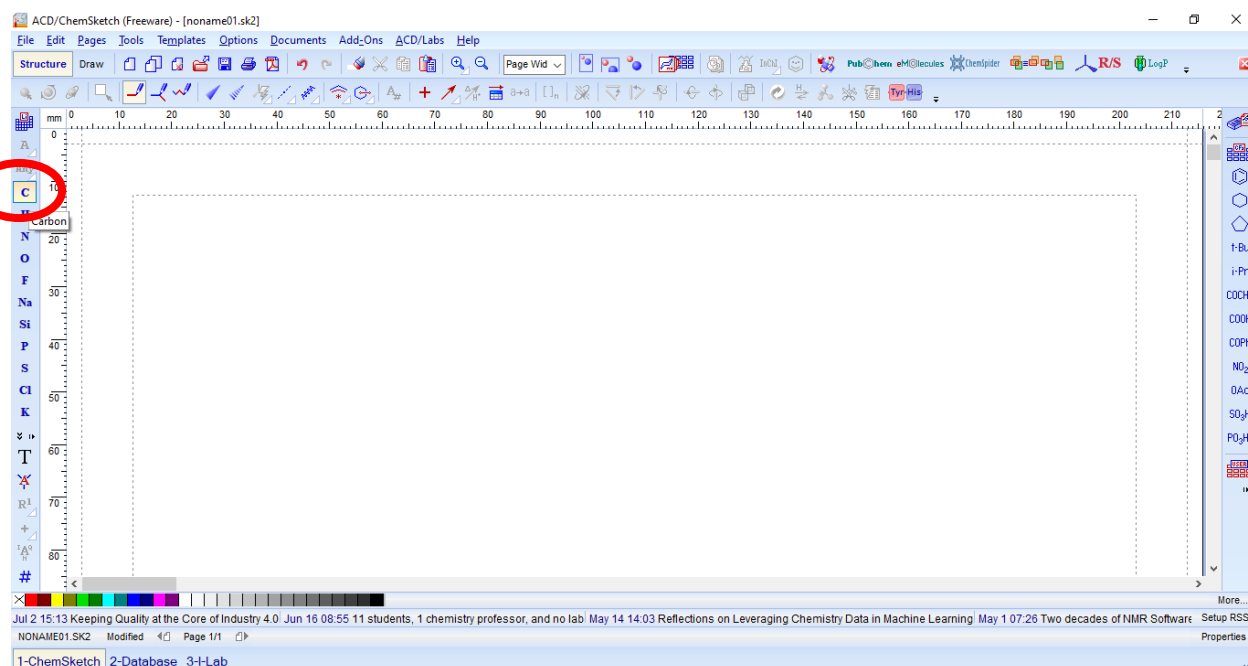
BAB III. Menggambar Senyawa Hidrokarbon

Contoh : menggambar Senyawa 2,3-dimetil propana

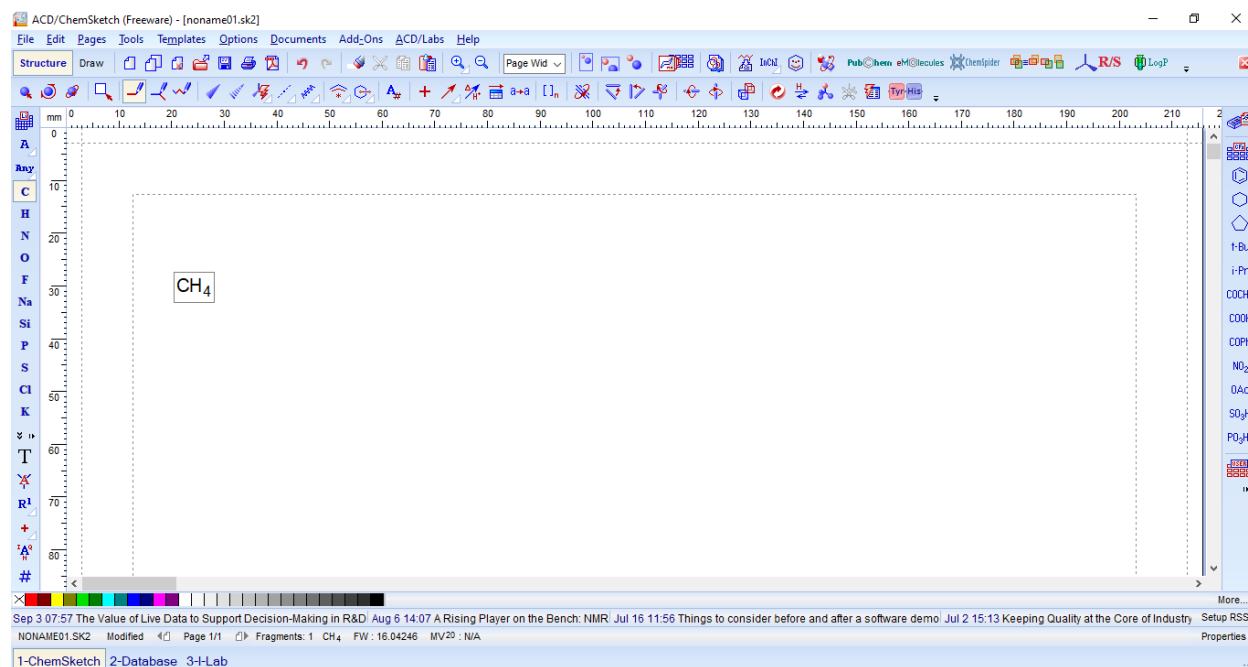
III.1. Pastikan worksheet dalam mode Structure



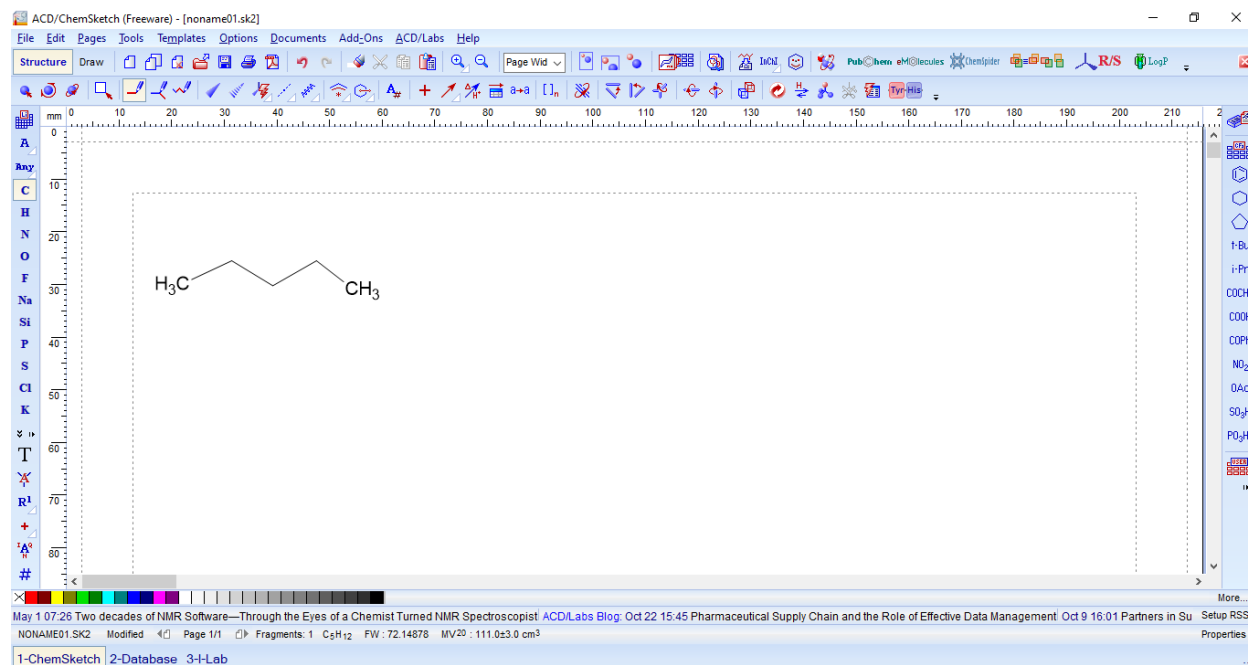
III.2. Aktifkan tools atom Carbon dengan cara klik sekali



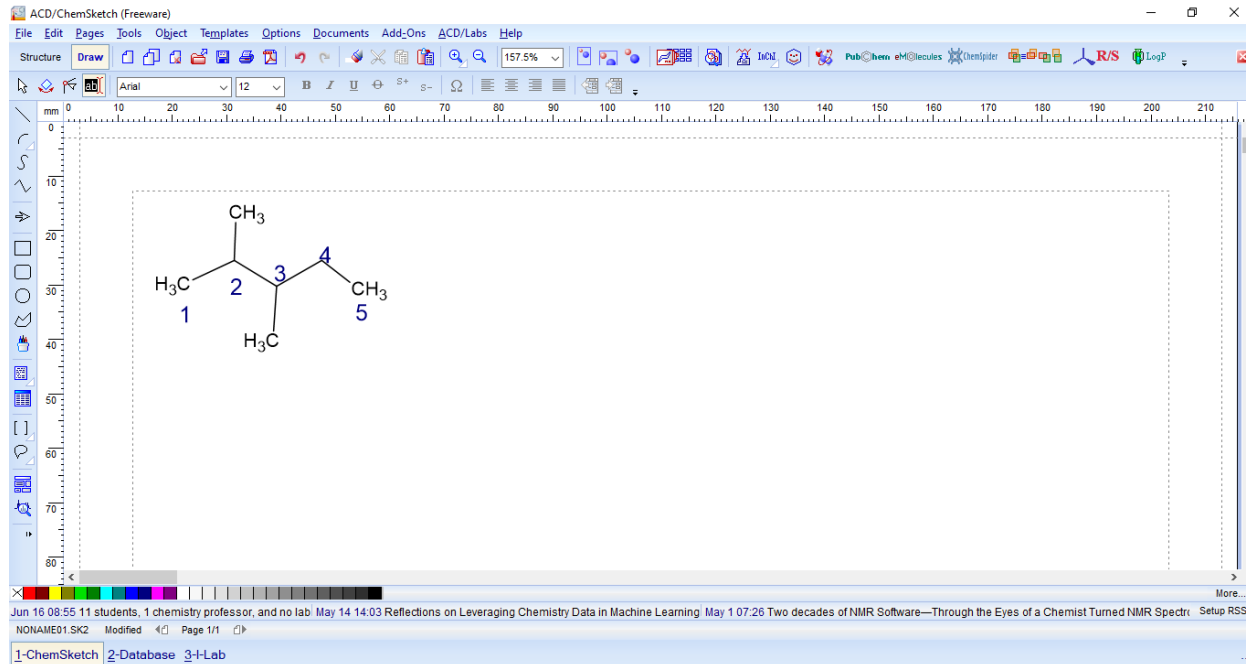
III.3. Klik sekali pada lembar kerja akan muncul struktur CH4



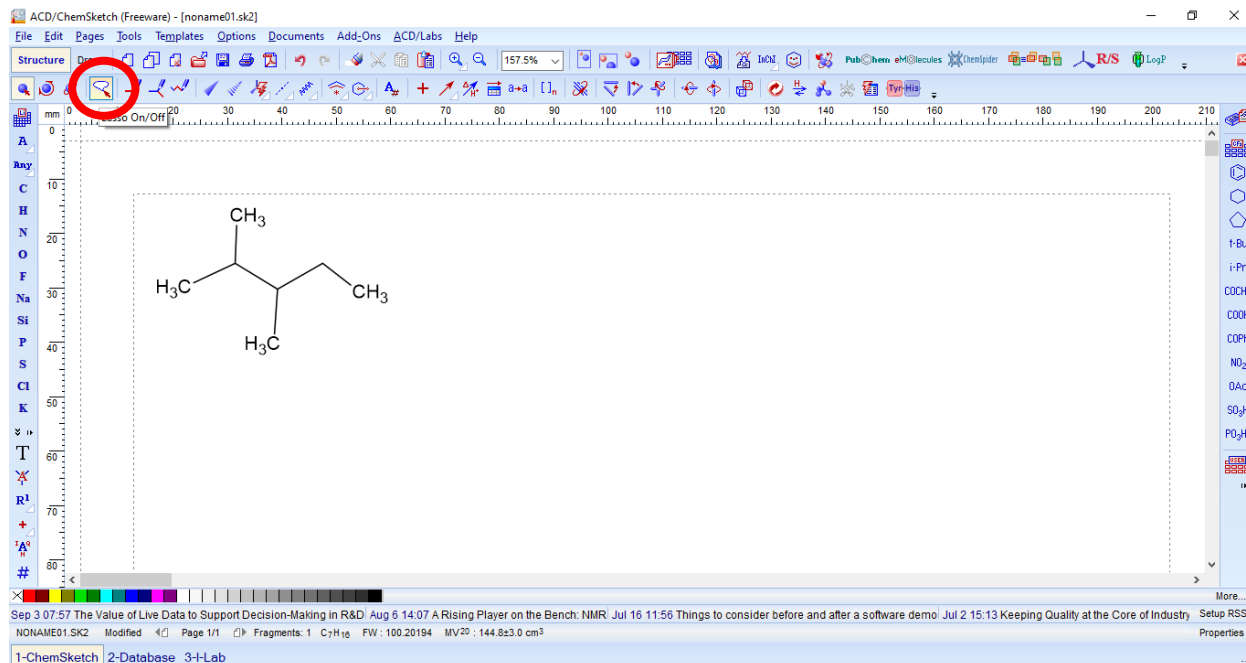
III.4. Lanjutkan proses menambahkan atom karbon sesuai jumlah atom C dalam kerangka induk dalam hal ini 5 atom C



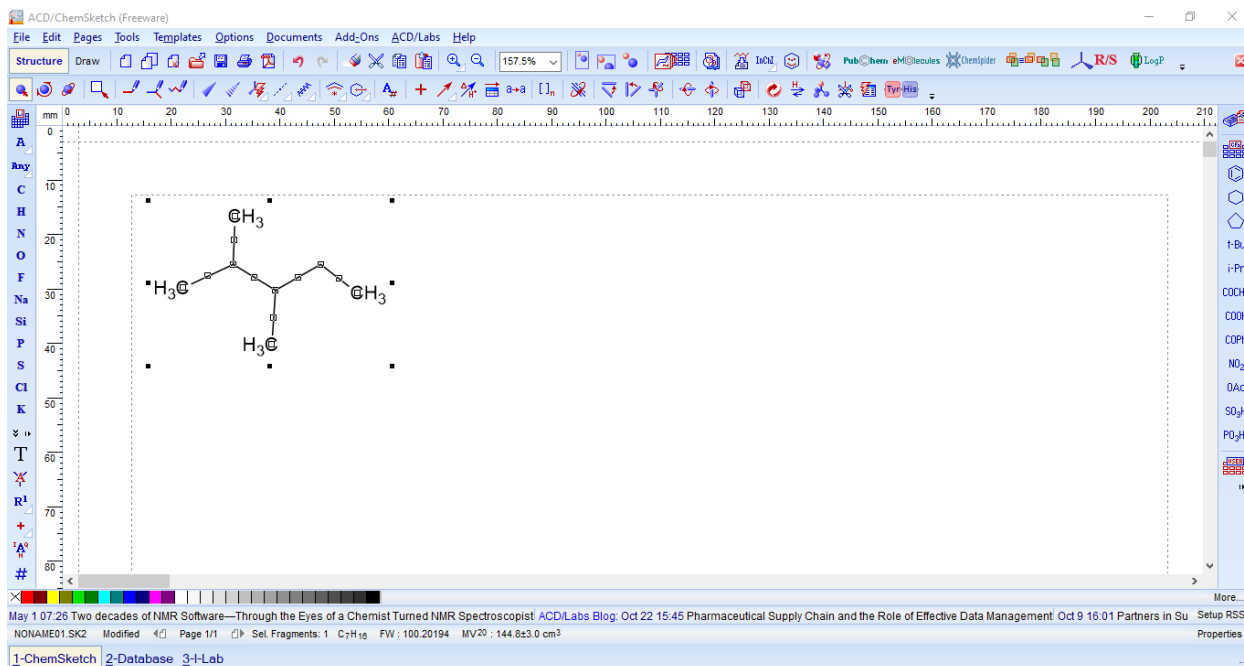
III.5. Tambahkan rantai cabang pada atom C yang dituju dalam contoh adalah C no 2 dan 3



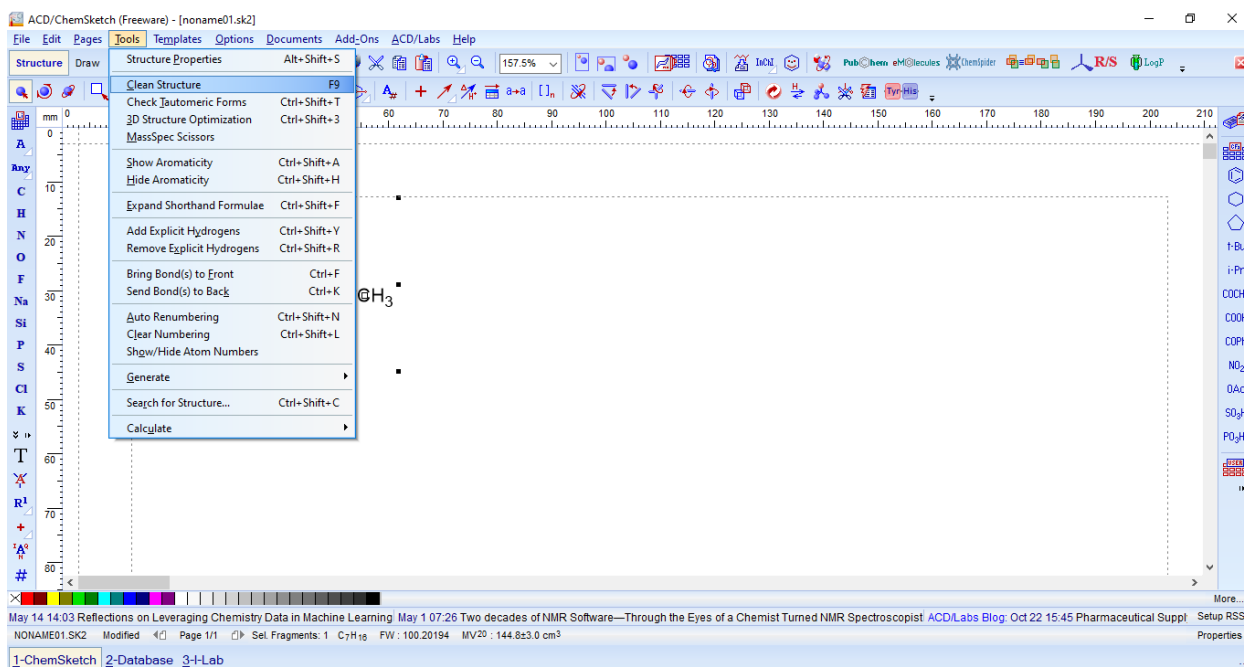
III.6. Sudah terbentuk 2,3-dimetil propana akan tetapi struktur masih tidak rapi, selanjutnya dirapikan dengan cara : aktifkan menu lasso



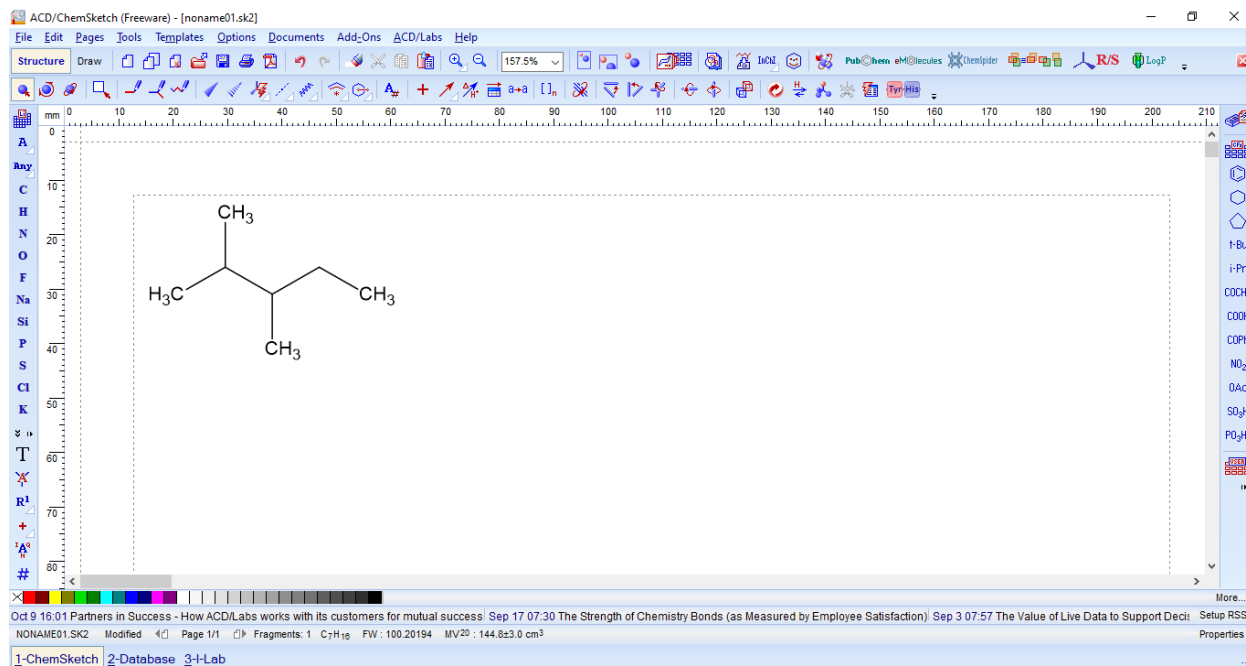
III.7. Aktifkan senyawa yang akan di clean up (muncul titik – titik kotak di sekitar struktur senyawa)



III.8. Klik Tools → Klik Clean Structure

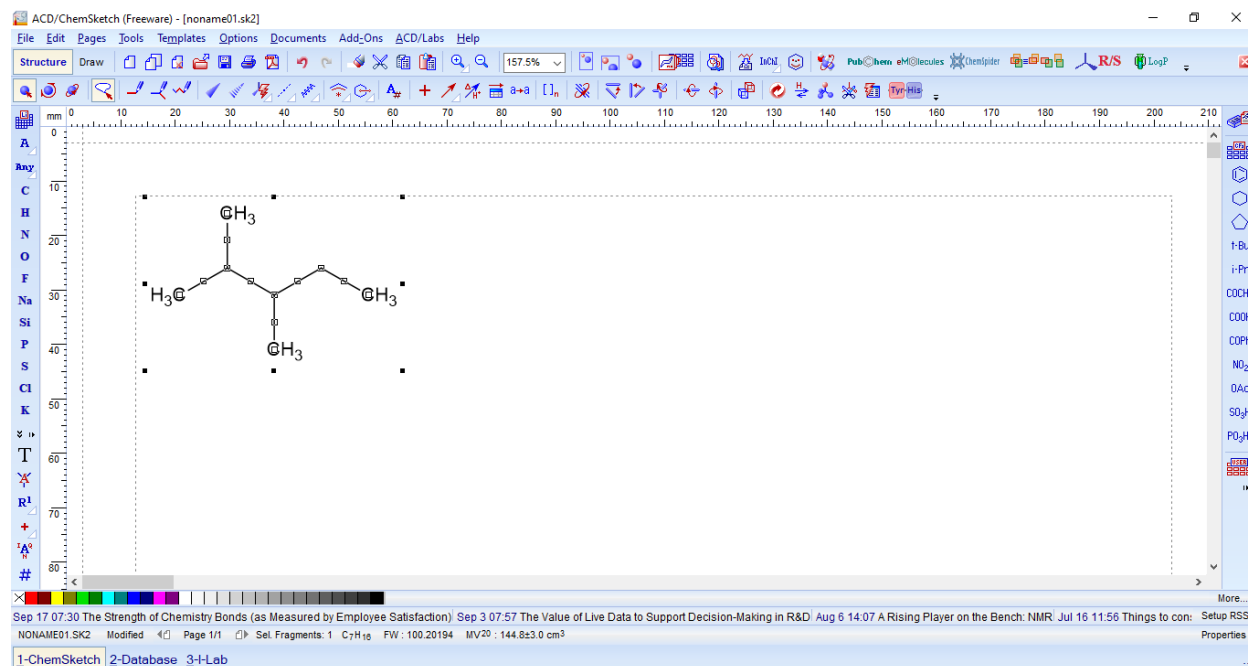


III.9. Struktur 2,3-dimetil propana yang sudah rapi

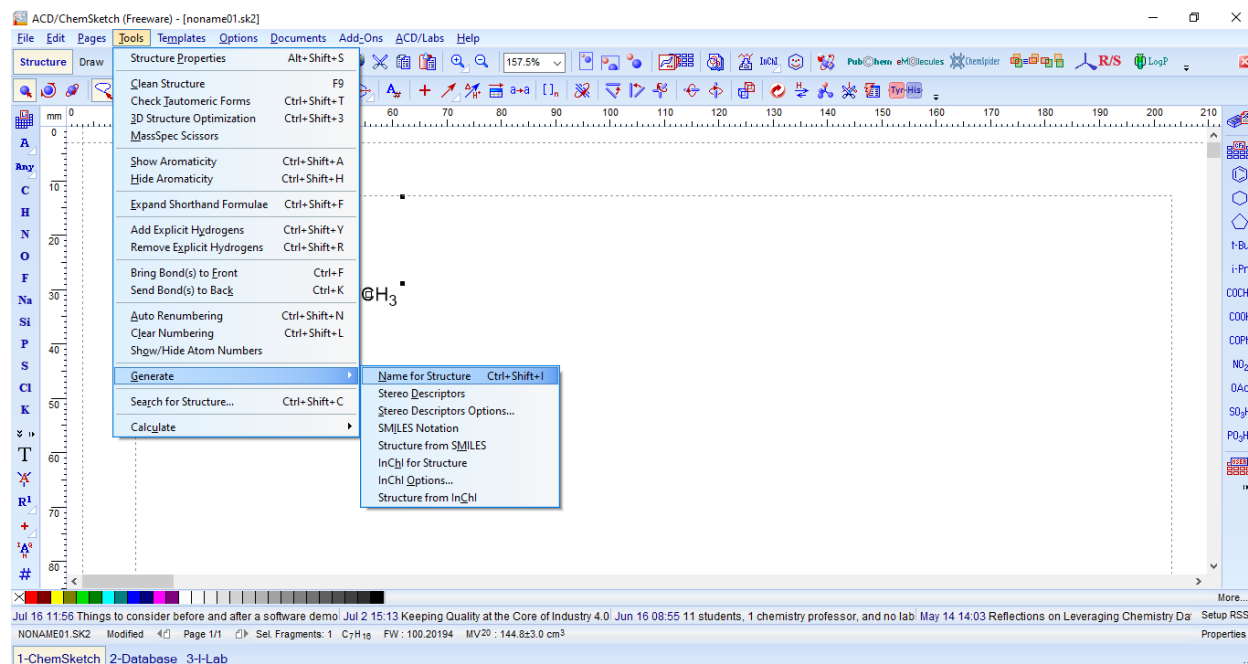


BAB IV. Cara Mengubah Struktur menjadi Nama Senyawa

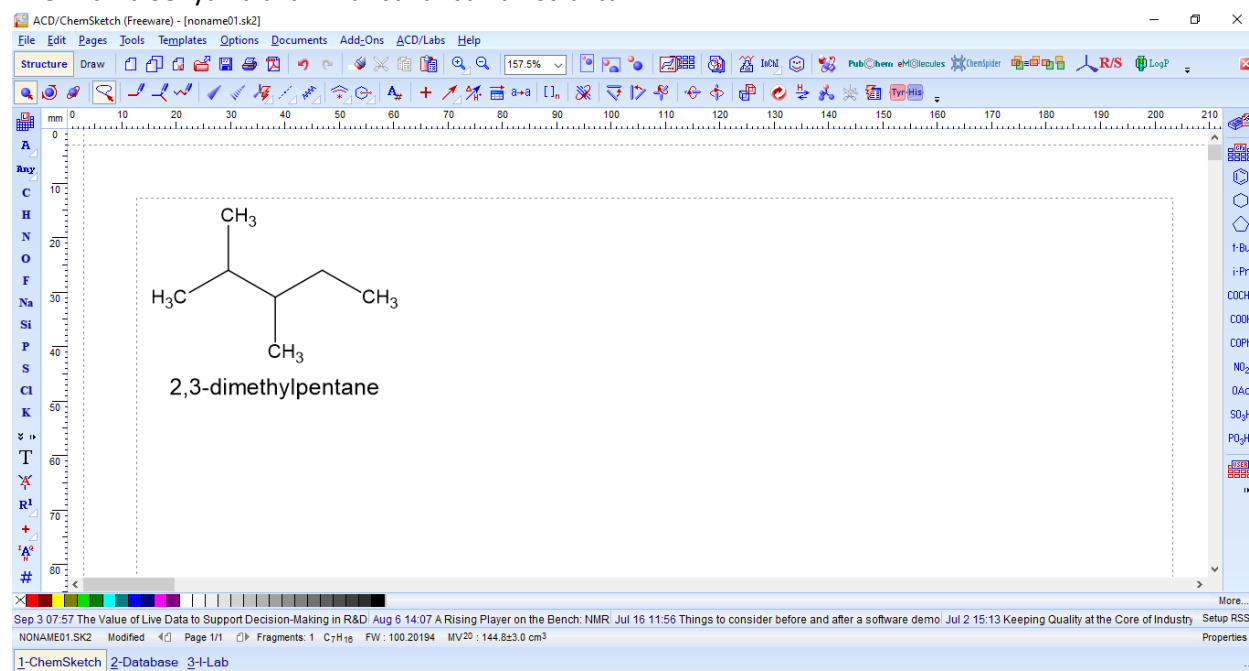
IV.1. Aktifkan Senyawa



IV.2. Klik Tools → Generate → Name for Structure

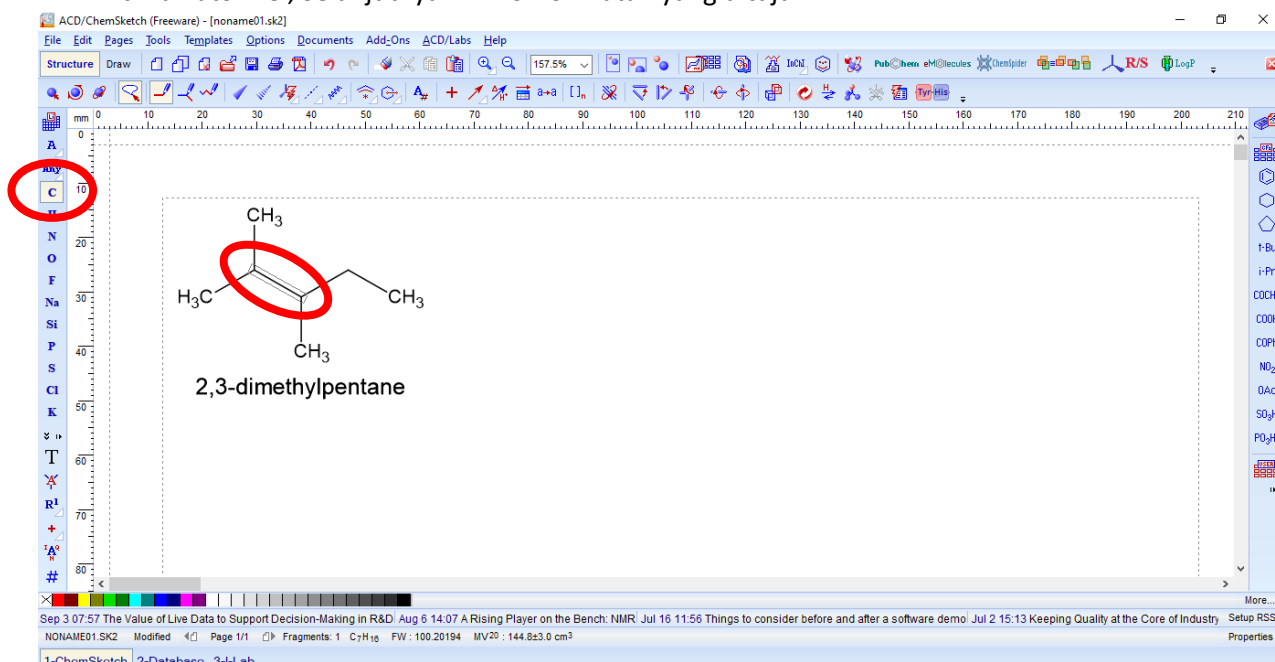


IV.3. Nama Senyawa akan muncul di bawah struktur

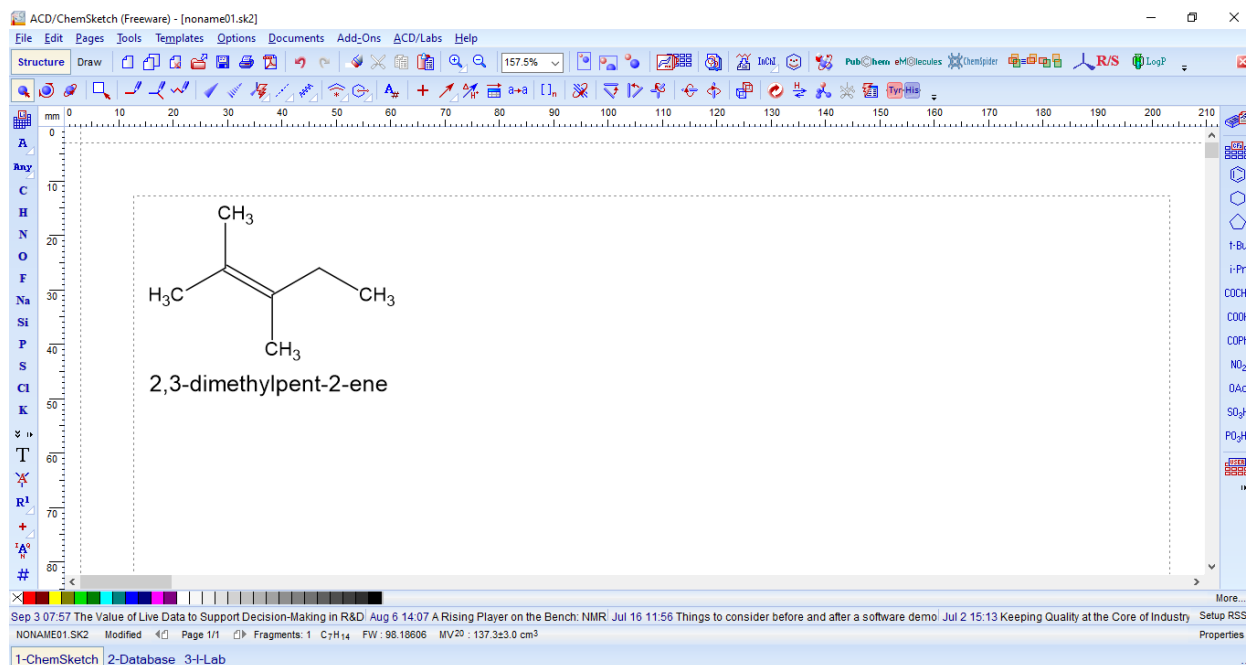


BAB V. Cara Membuat Ikatan Rangkap

V.1. Aktifkan atom C , Selanjutnya klik nomor ikatan yang dituju

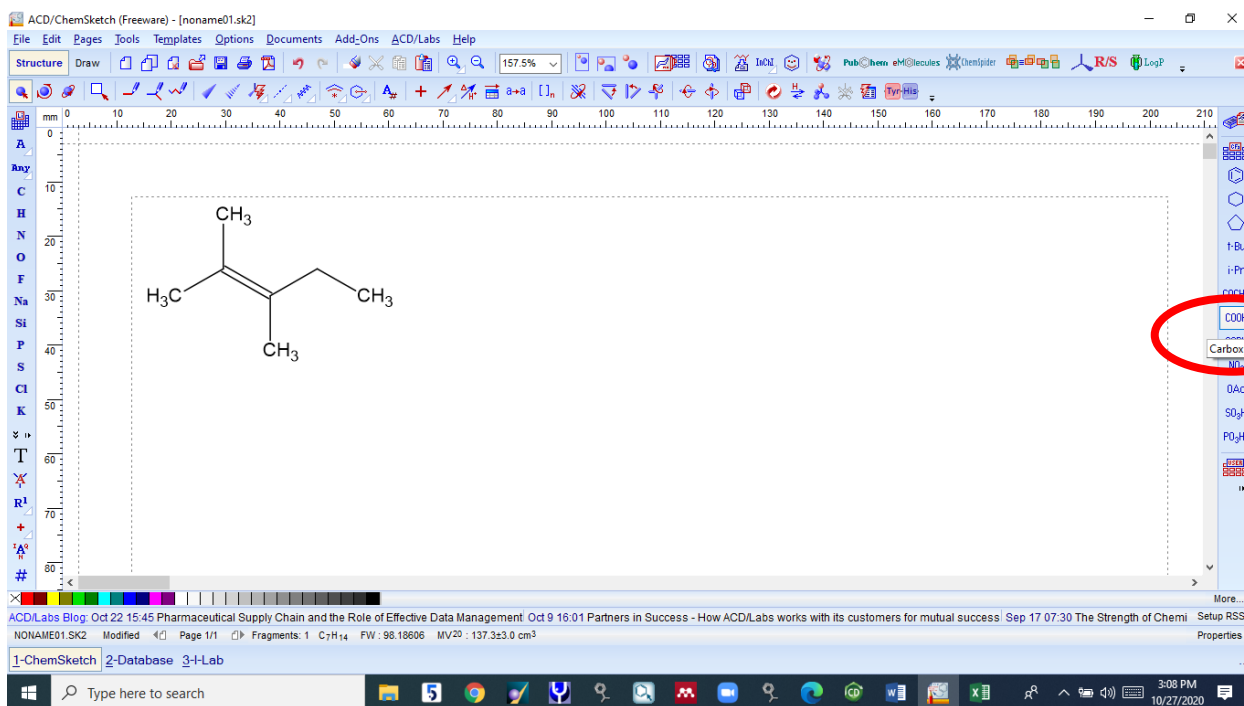


V.2. Struktur otomatis membentuk ikatan rangkap, 2,3-dimetil-2-pentena

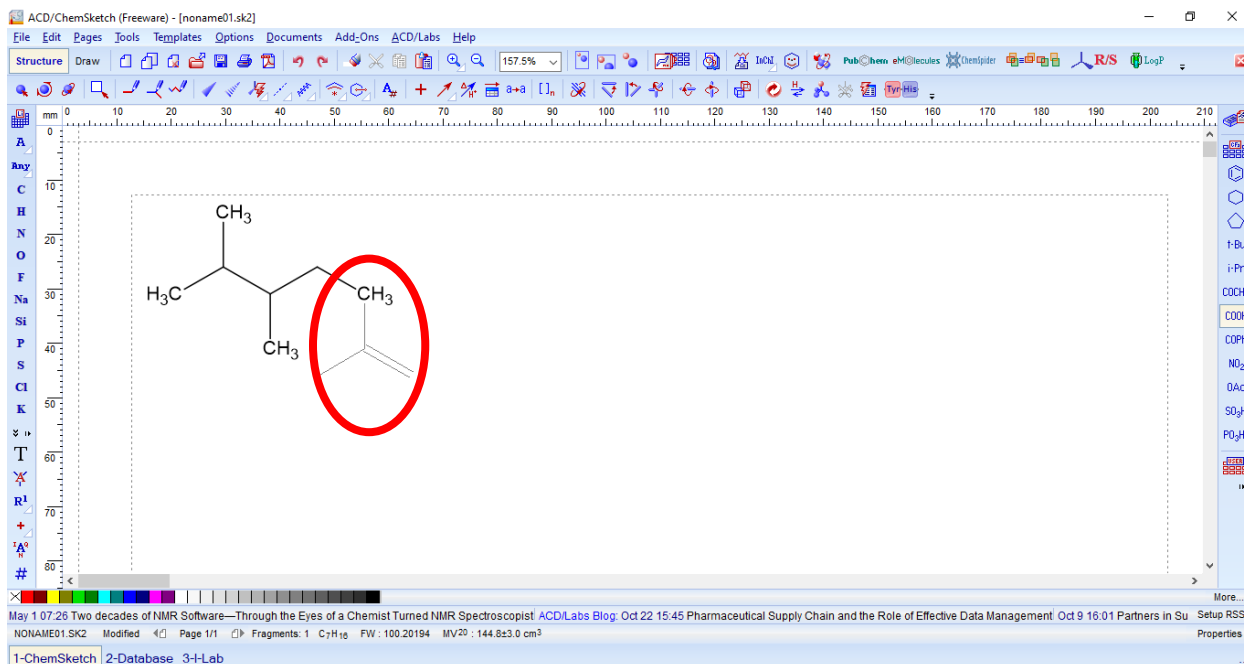


BAB VI. Menggambar Struktur dengan Gugus Fungsi

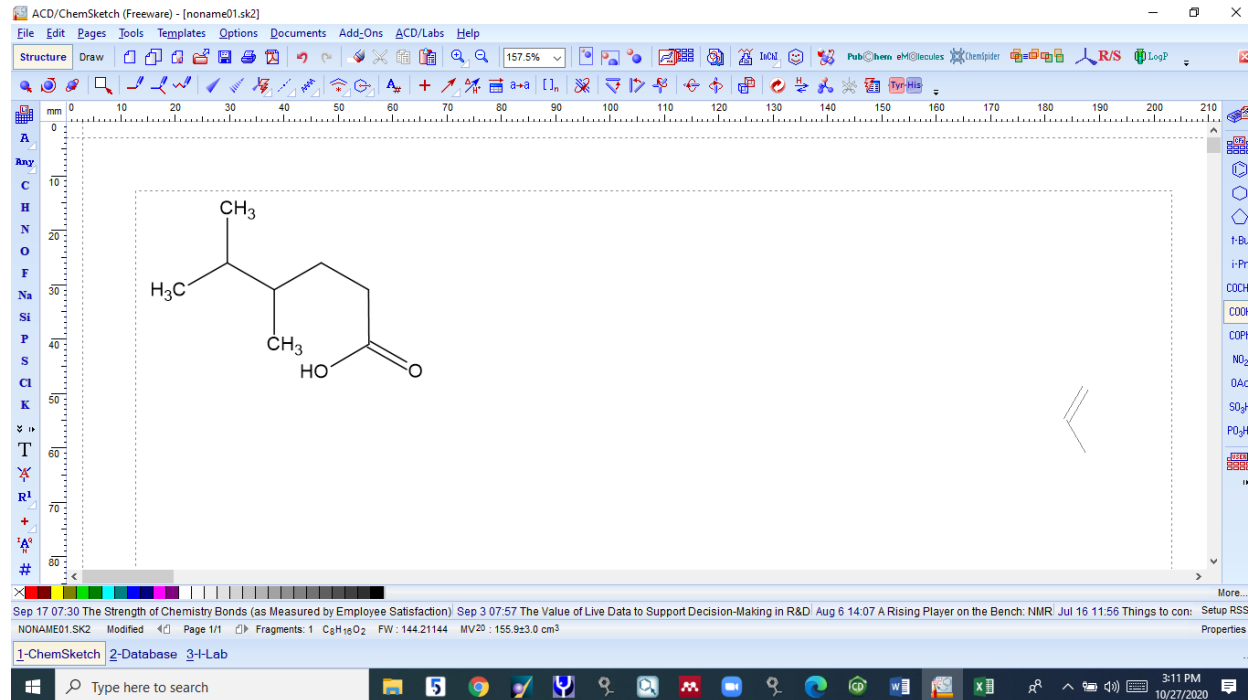
VI.1. Misal gugus fungsi karboksilat, caranya aktifkan template karboksil (COOH)



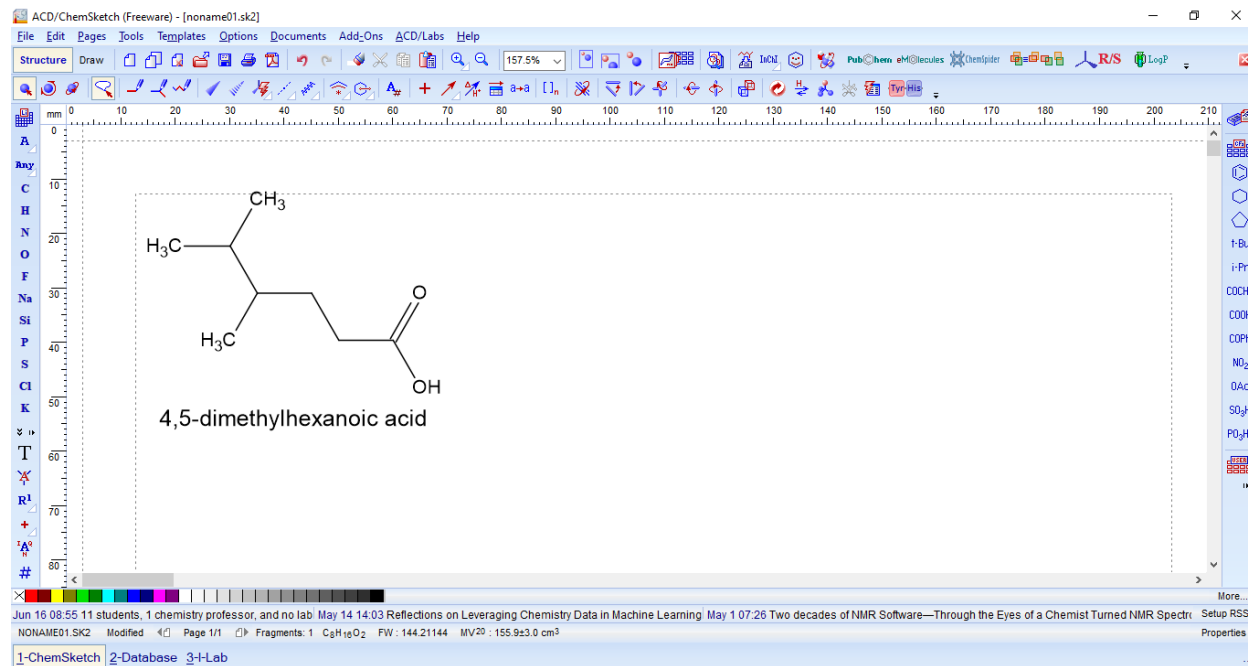
VI.2. Posisikan gugus fungsi pada atom C yang dituju



VI.3. Akan tampil gugus fungsi sebagai berikut

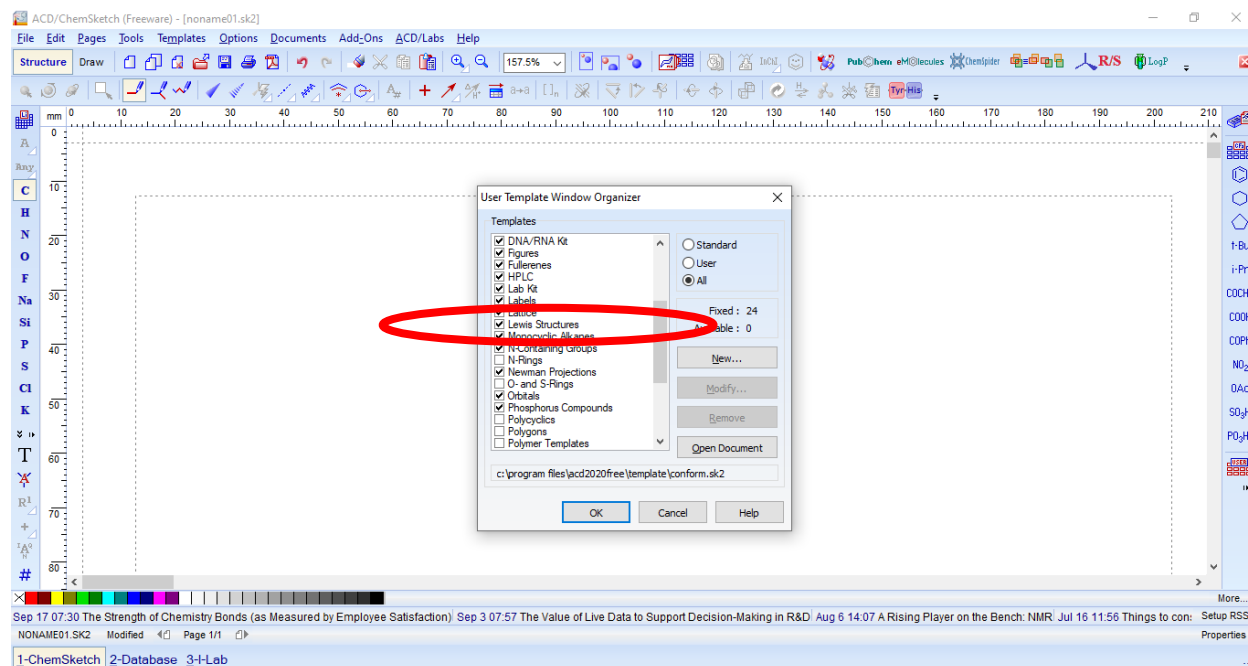


VI.4. Lakukan Clean Structure dan munculkan nama senyawa, Setelah ditambahkan gugus fungsi senyawa yang terbentuk adalah Asam 4,5-dimetil heksanoat

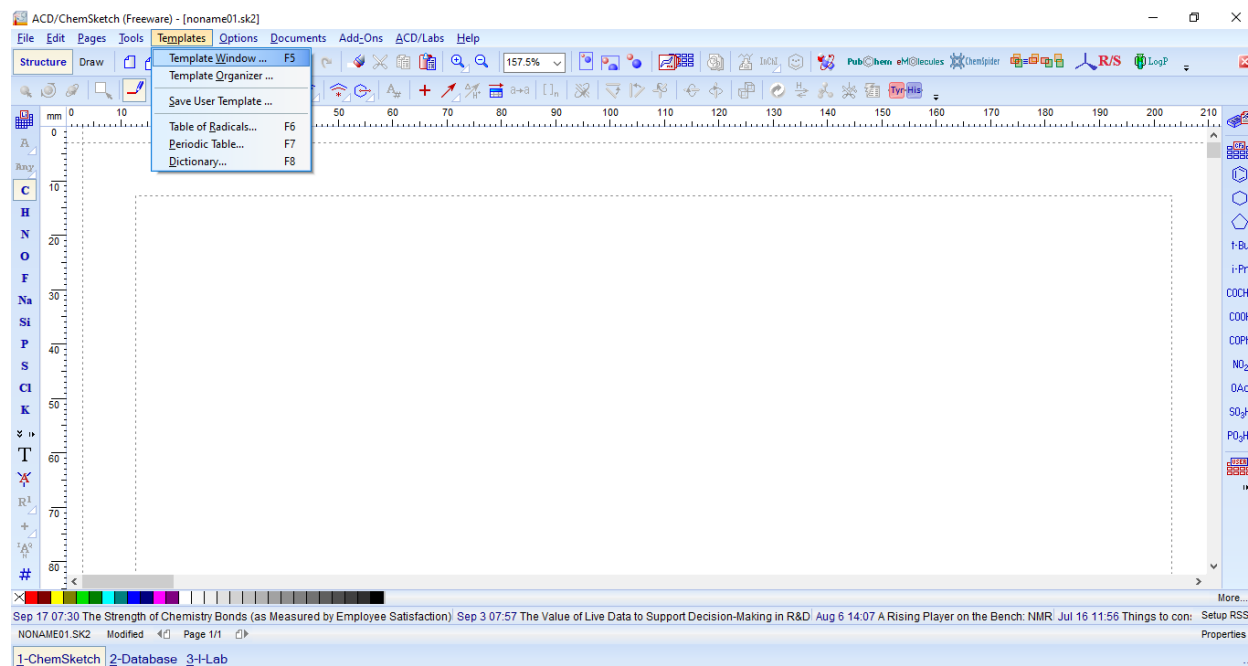


BAB VII. Cara Menggambar Struktur Lewis

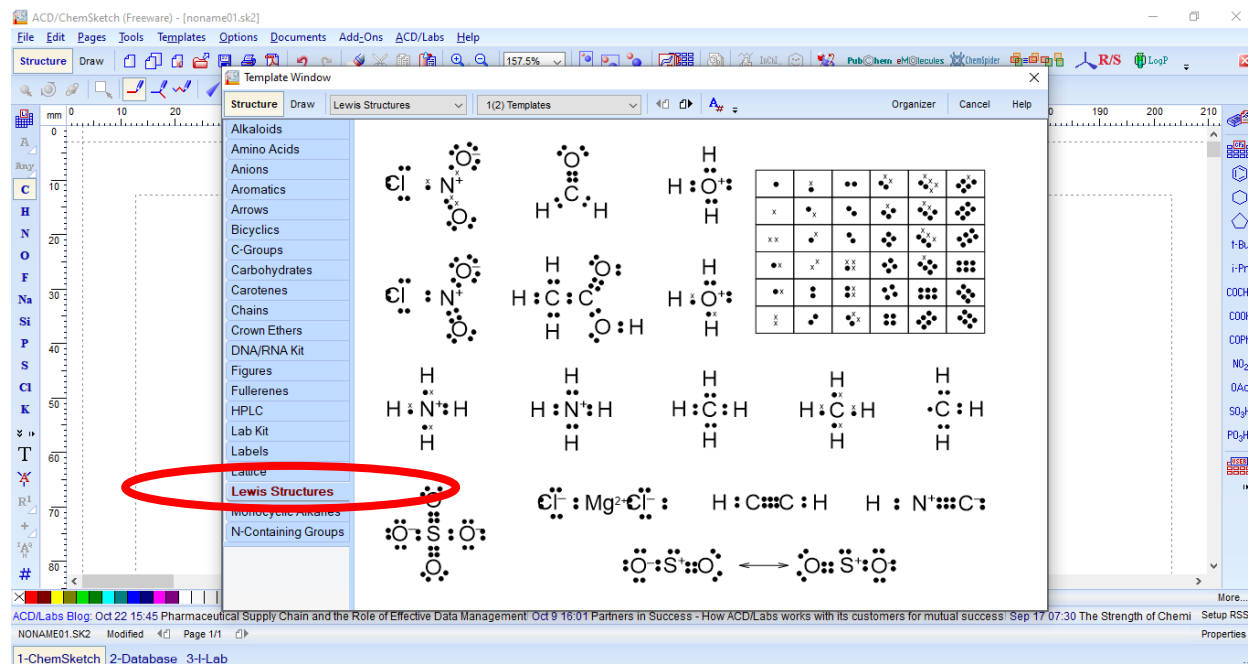
VII.1. Pastikan menu Lewis Structure sudah di checklist pada template window organizer



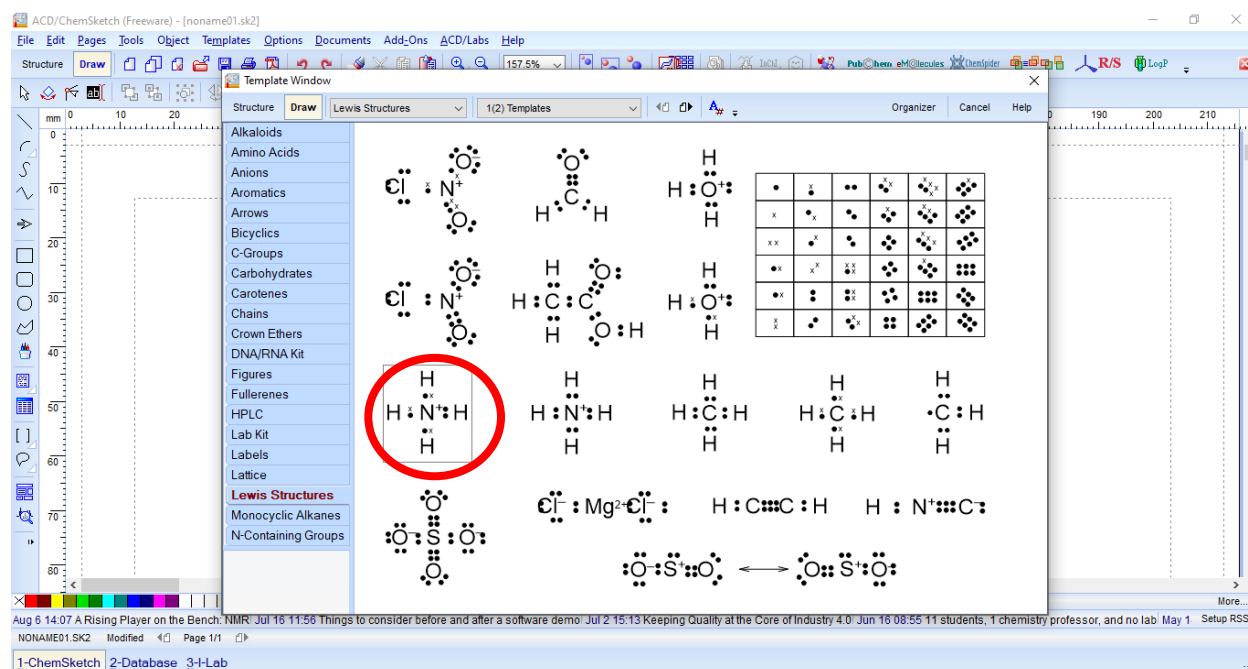
VII.2. Klik Template → Template Window



VII.3. Klik Lewis Structure



VII.4. Klik salah satu template yang dituju



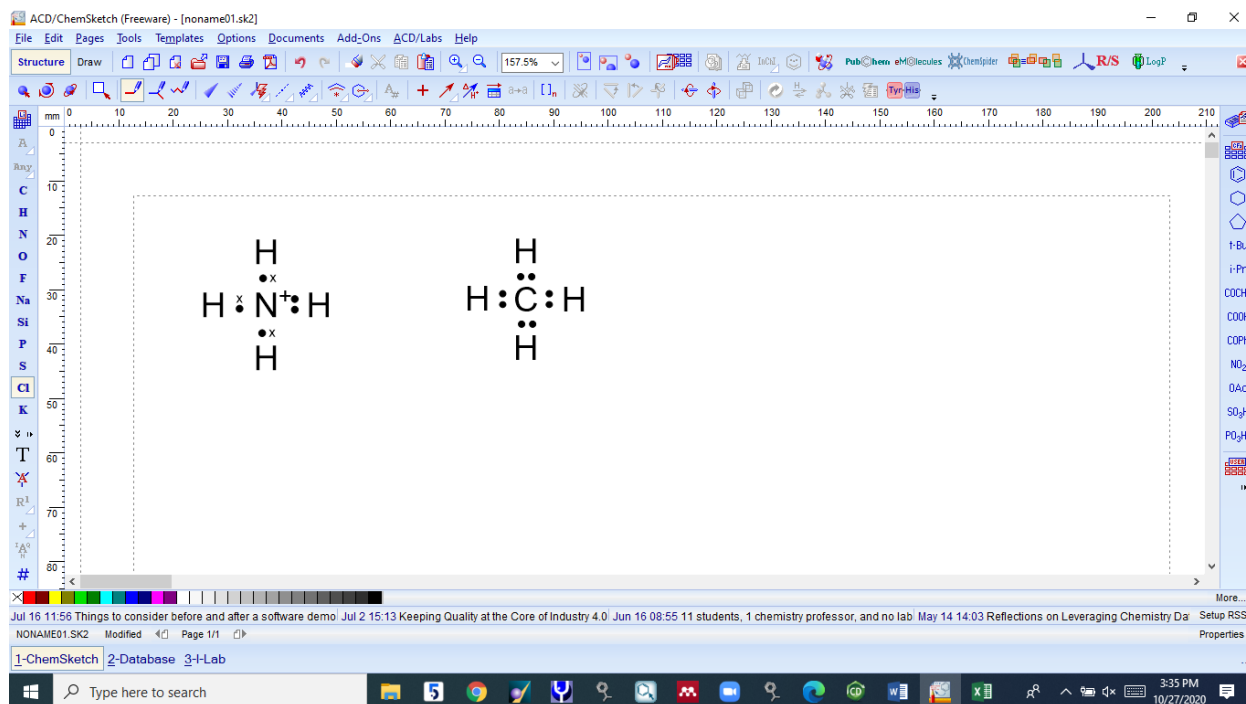
VII.5. Klik kan pada lembar kerja

The image displays two sequential screenshots of the ACD/ChemSketch software interface, illustrating the process of building a chemical structure. Both windows show the same menu bar (File, Edit, Pages, Tools, Object, Templates, Options, Documents, Add-Ons, ACD/Labs, Help) and a toolbar with various drawing tools. The main workspace features a coordinate grid with axes labeled from 0 to 210 mm.

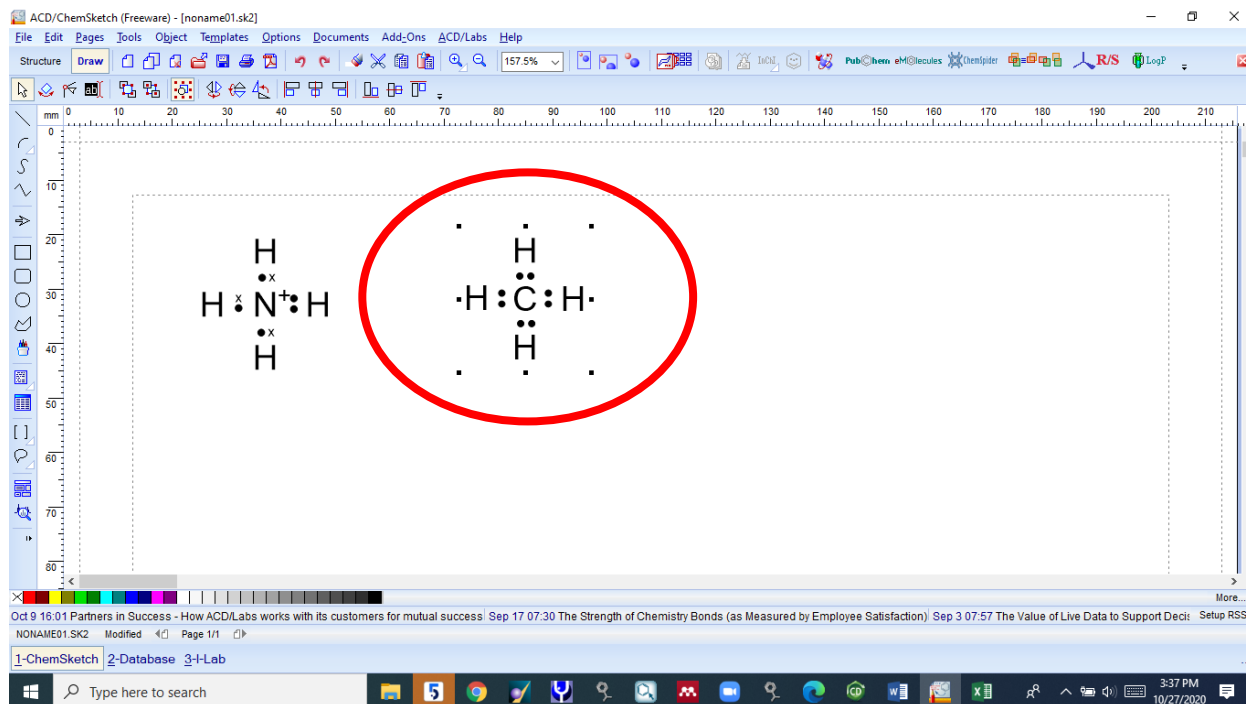
Top Screenshot: Shows the initial construction of a central nitrogen atom (N) with a positive charge (+). It is bonded to four hydrogen atoms (H) in a cross-like arrangement. The structure is enclosed in a dashed rectangular box.

Bottom Screenshot: Shows the next step in the construction. The central nitrogen atom now has a lone pair of electrons, represented by two dots (••) above it. The four hydrogen atoms are now explicitly shown with their own lone pairs of electrons, represented by two dots (••) on each atom. The structure remains enclosed in the dashed box.

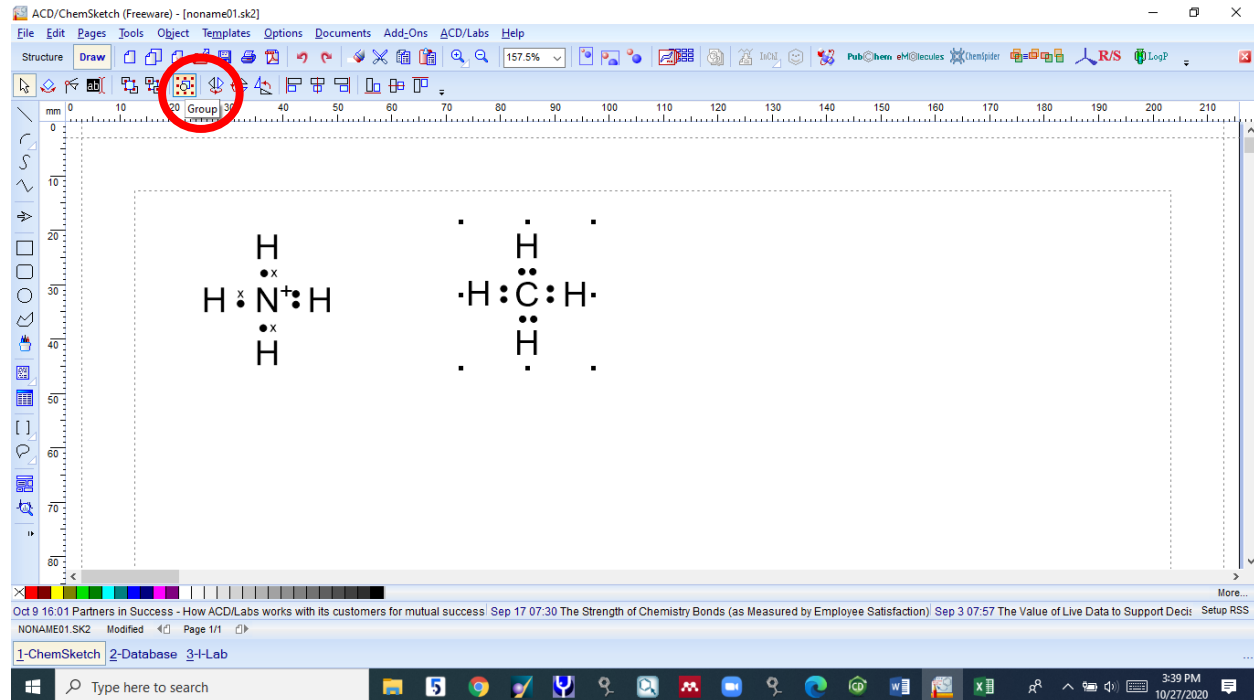
At the bottom of each window, there is a status bar with text including "NONAME01.SK2 Modified Page 1/1" and a list of recent documents or news items.



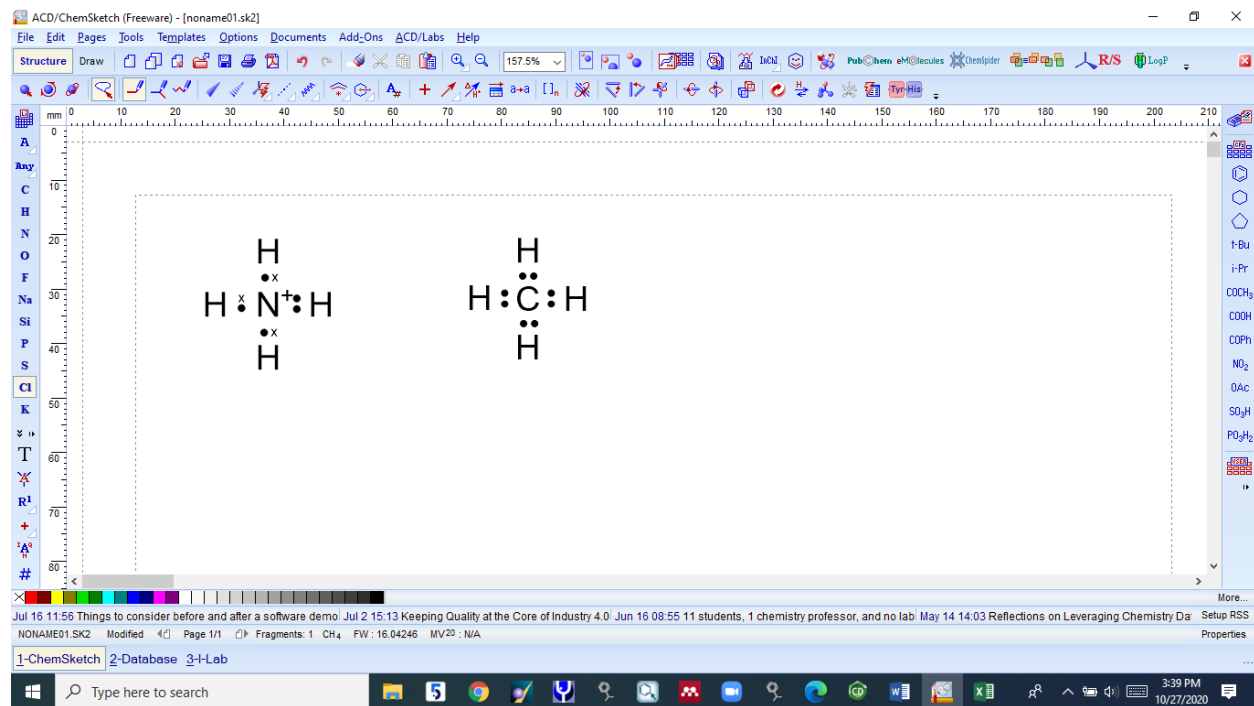
VII.6. Apabila ingin mengubah atom dalam struktur lewis, Lakukan ungroup terlebih dahulu dengan cara : aktifkan struktur



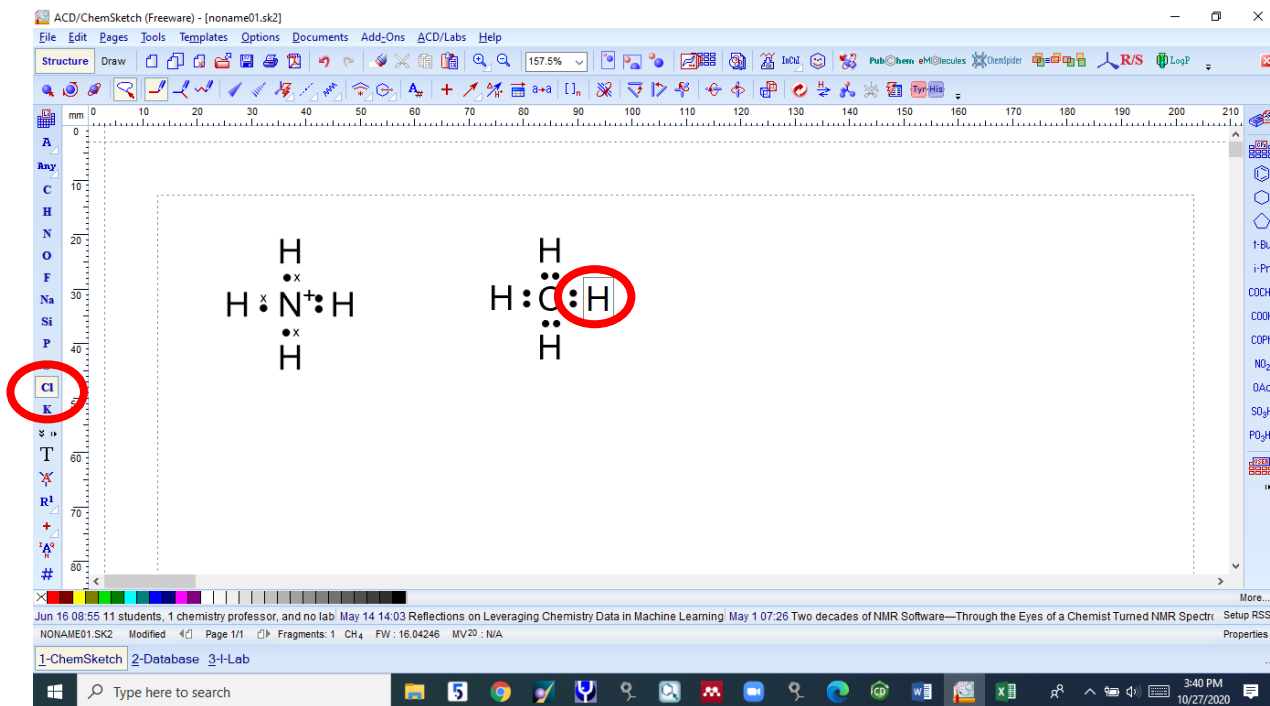
VII.7. Klik Group pada bagian Toolbar, Pastikan pada mode Draw



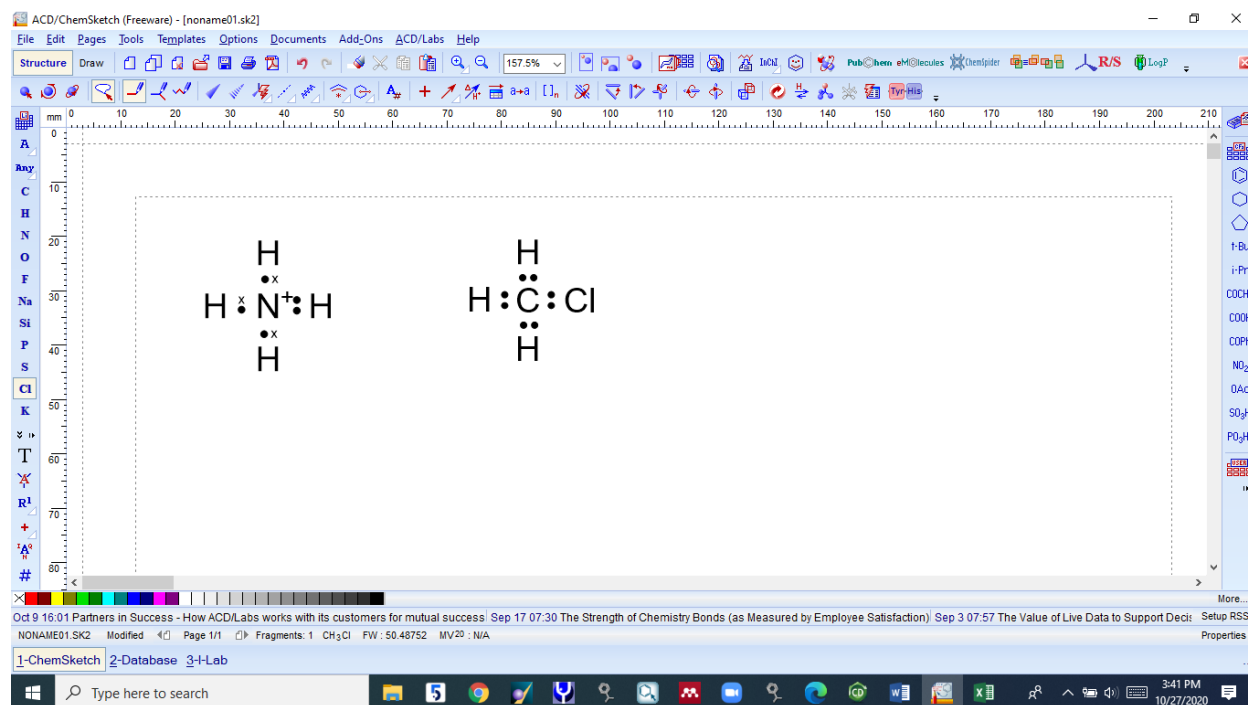
VII.8. Pindah ke Mode Structure



VII.9. Misal ingin mengubah atom H pada CH₄ dengan Cl maka aktifkan atom Cl , Klik bagian atom H yang ingin diganti

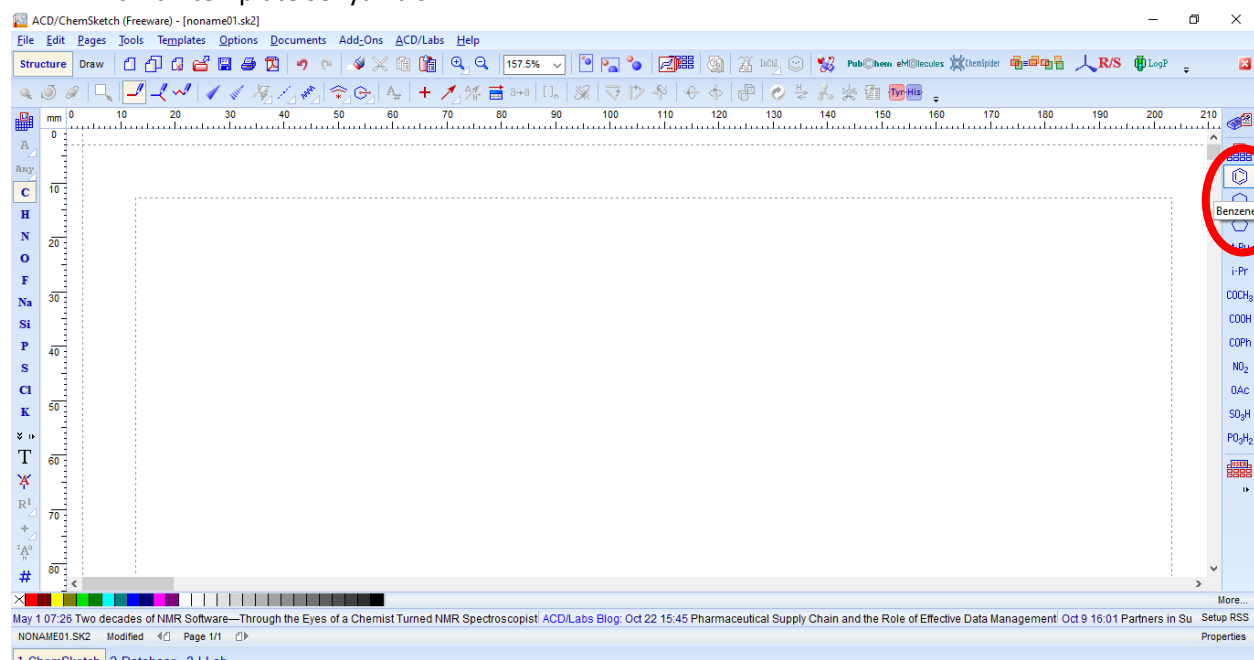


VII.10. Struktur Lewis CH₄ sudah berubah menjadi CH₃Cl

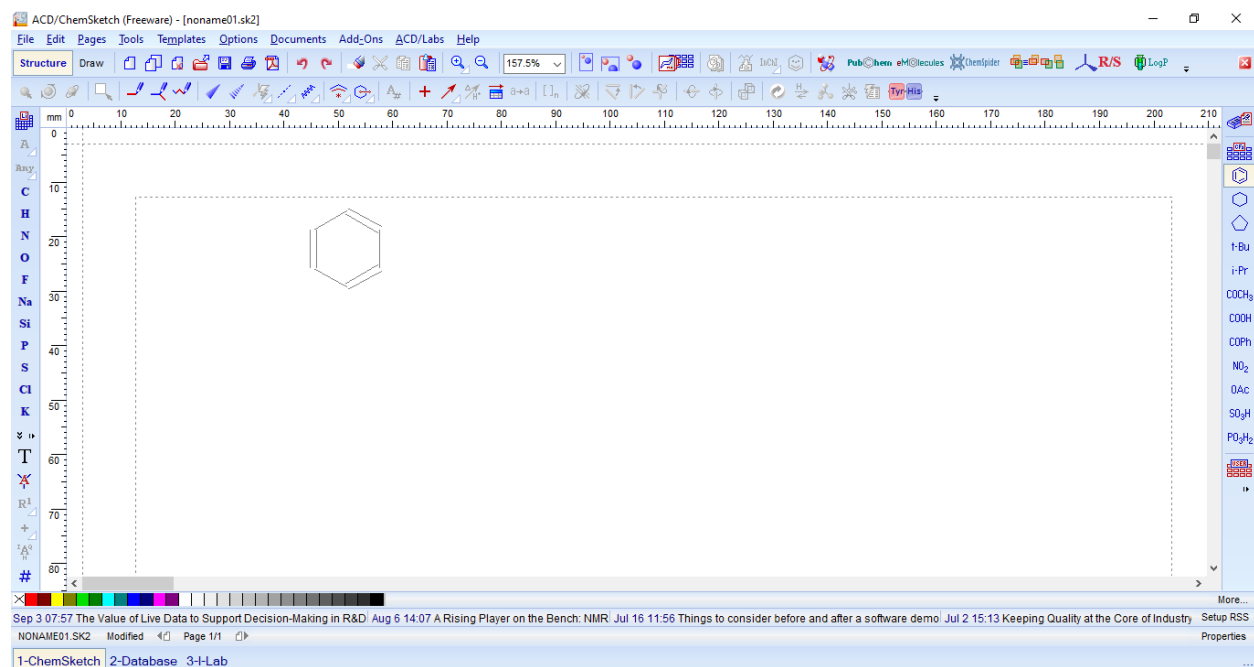


BAB VIII. Menggambar Struktur Senyawa Siklik

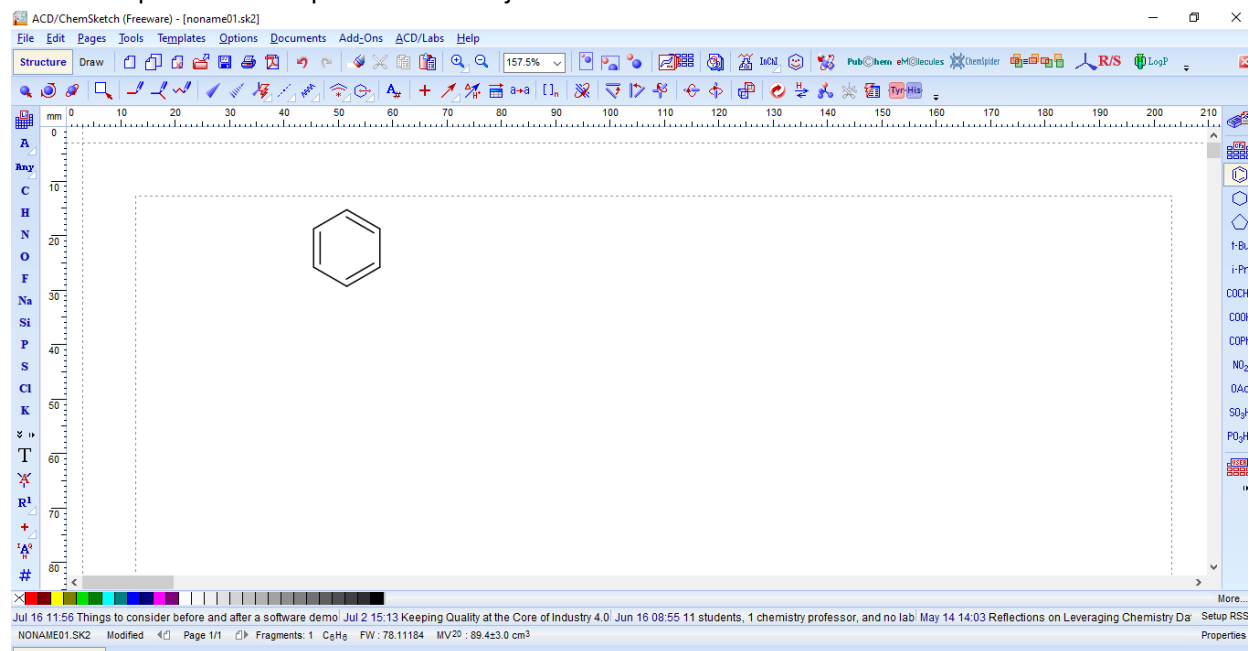
VIII.1. Aktifkan template senyawa siklik



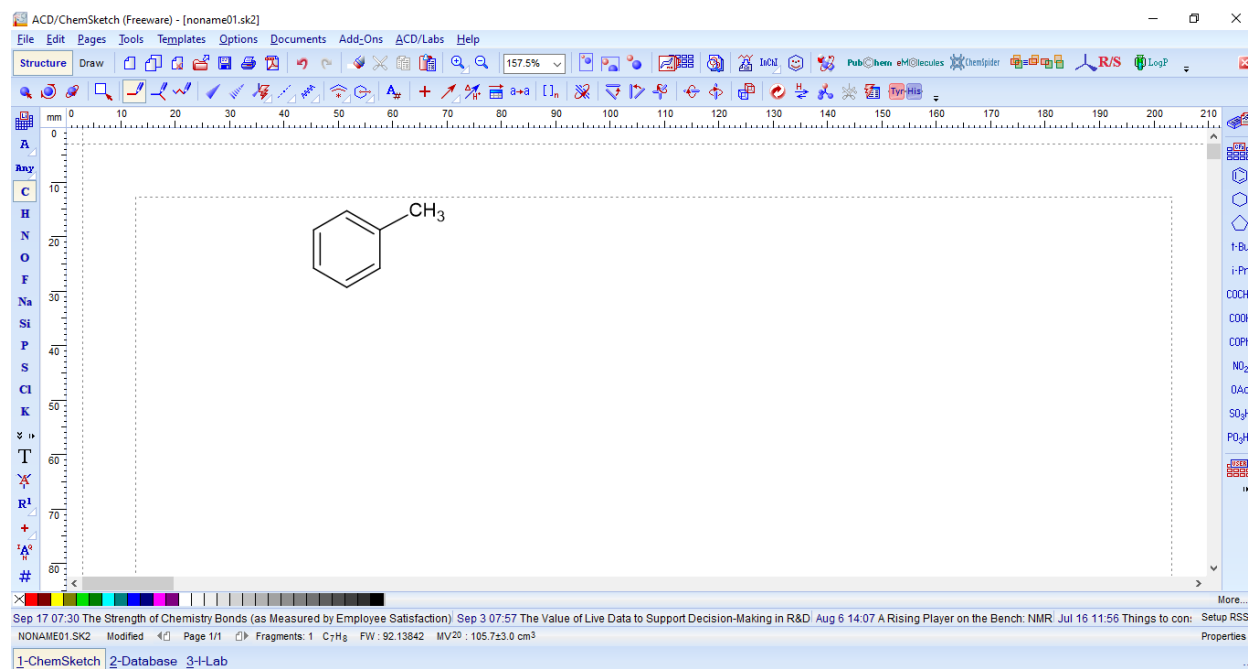
VIII.2. Klik pada lembar kerja

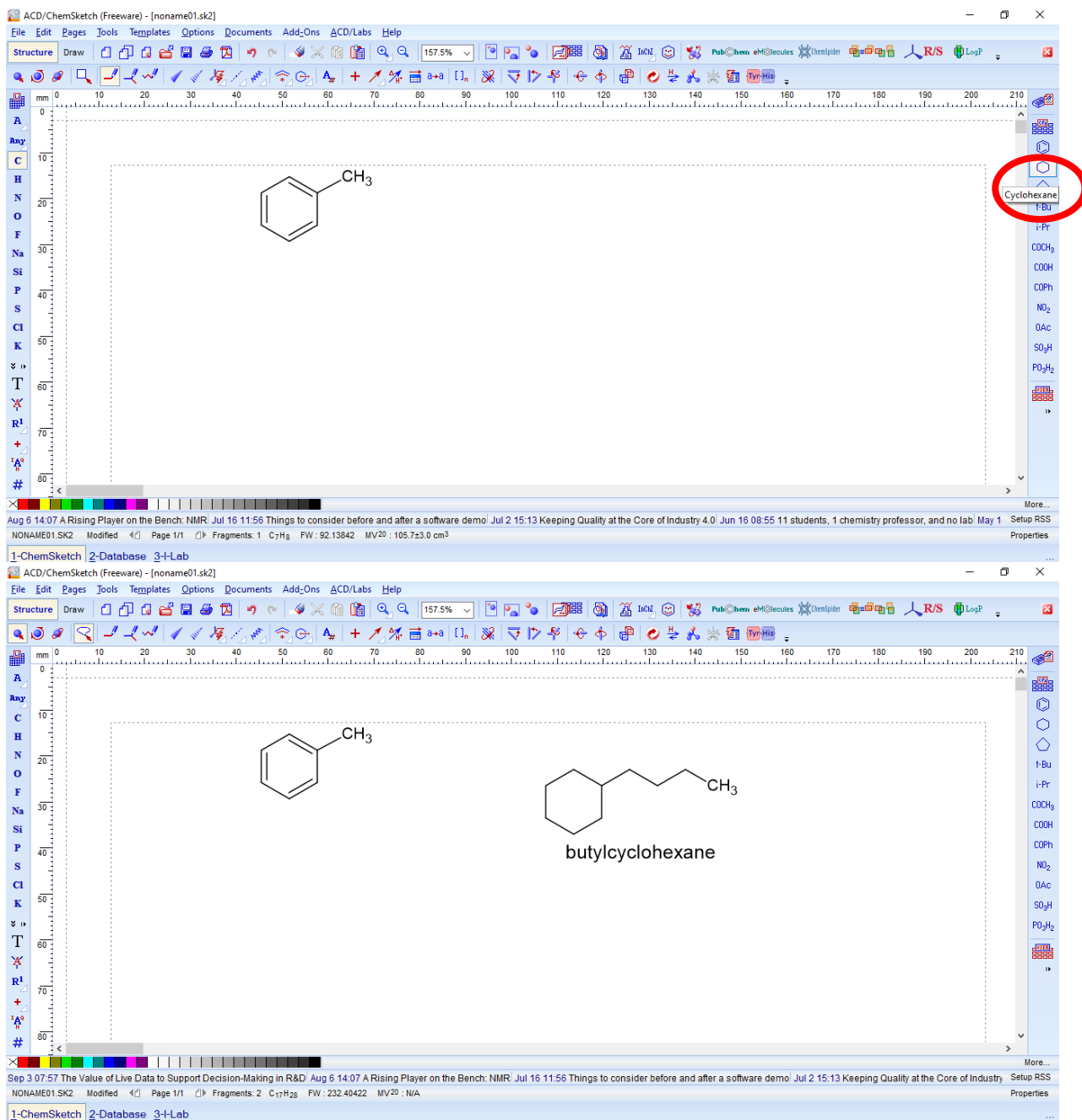


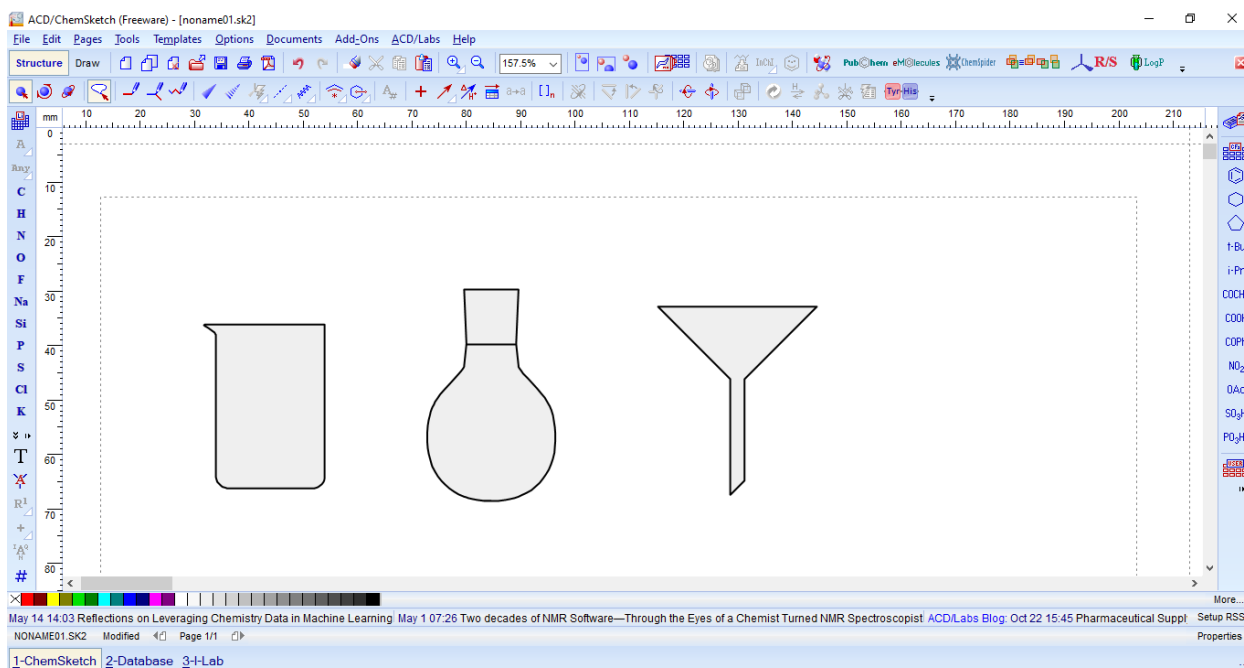
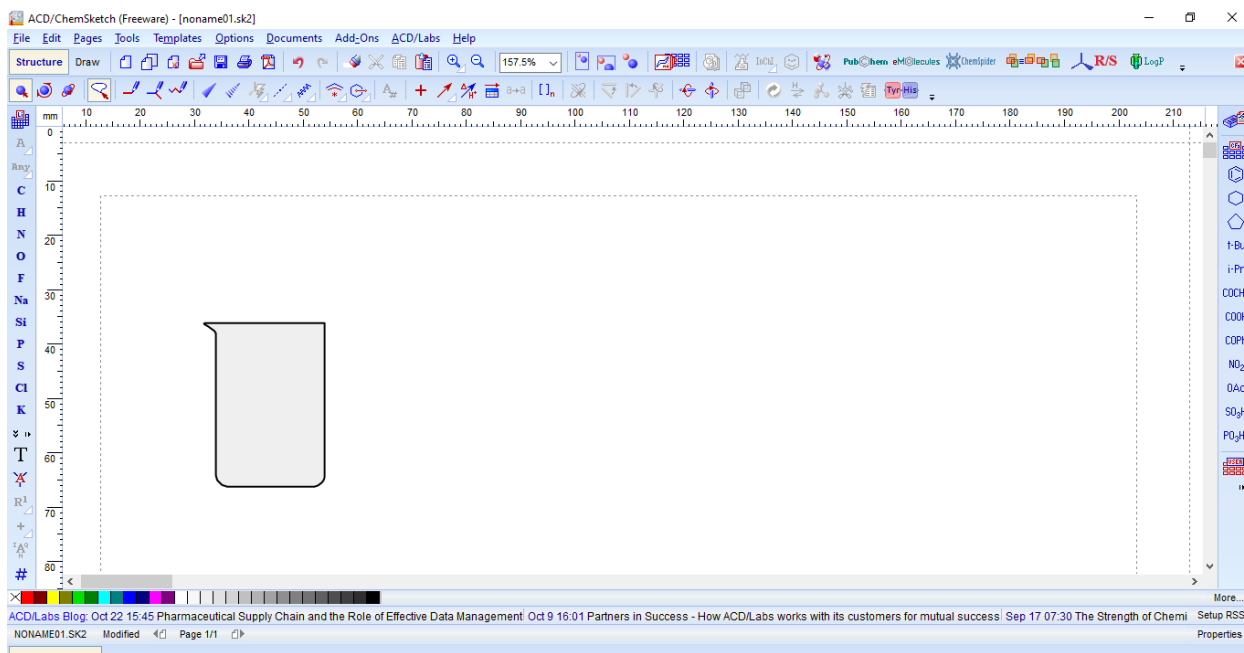
VIII.3. Tampilan benzene pada lembar kerja



VIII.4. Untuk menambahkan rantai samping, klik kan atom pada bagian atom yang akan diberi cabang

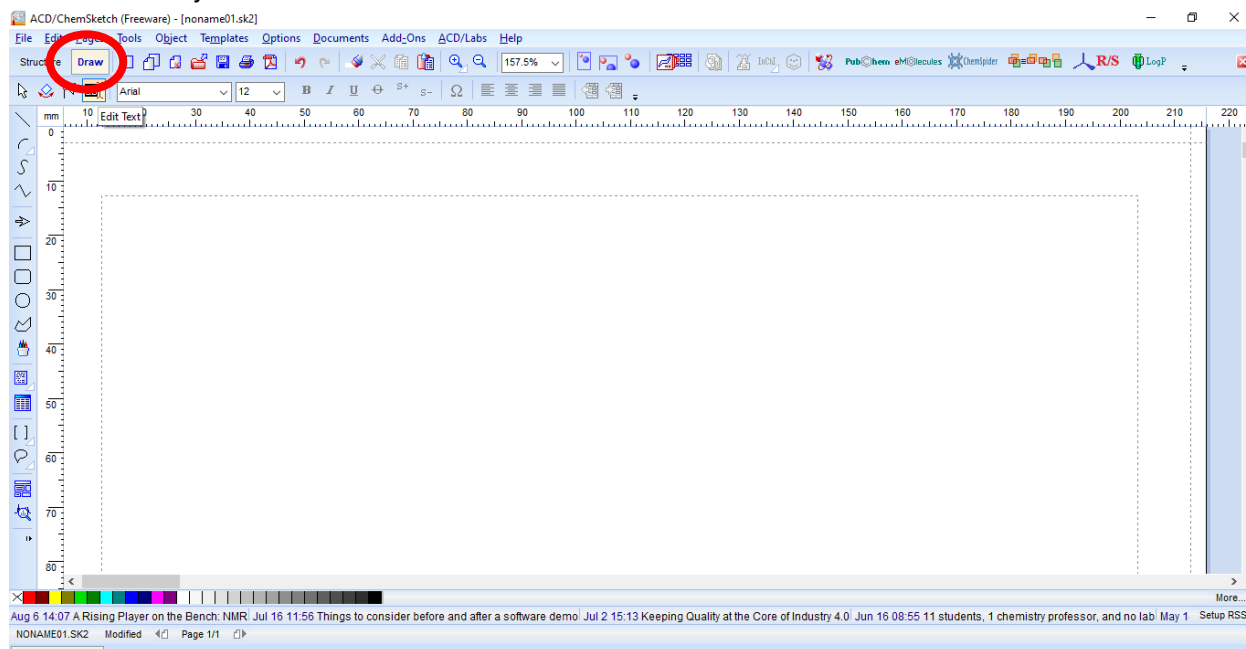




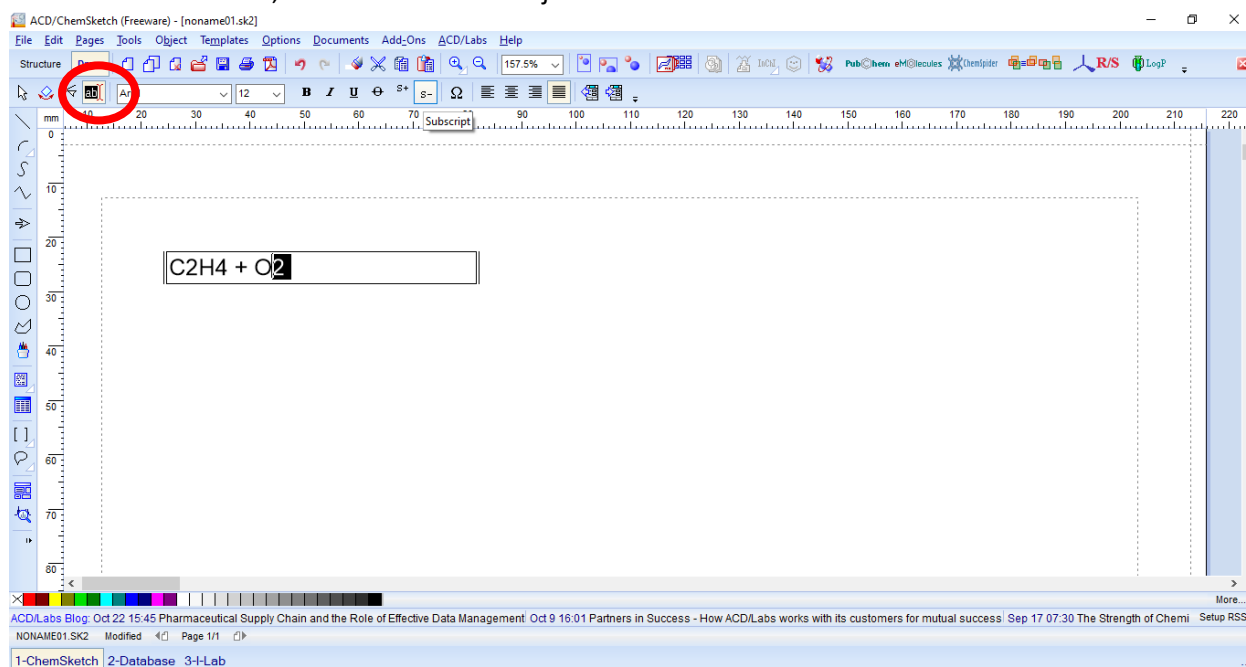


BAB X. Menggambar Persamaan Reaksi

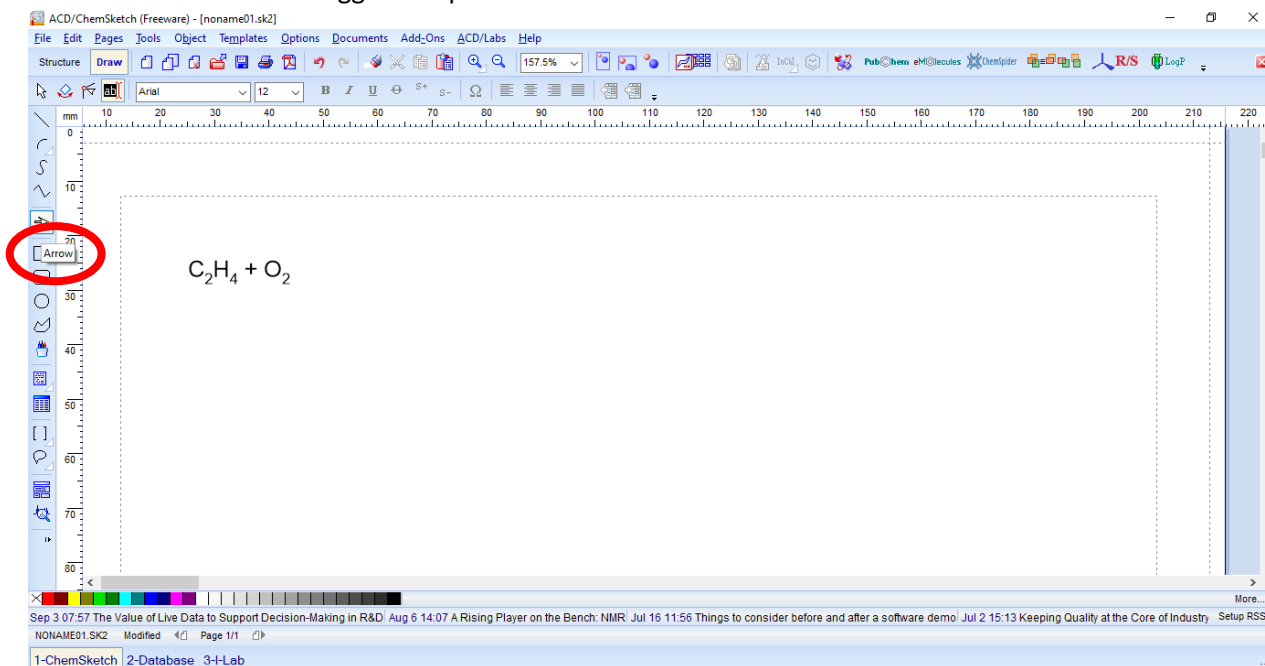
X.1. Lembar kerja dalam mode Draw



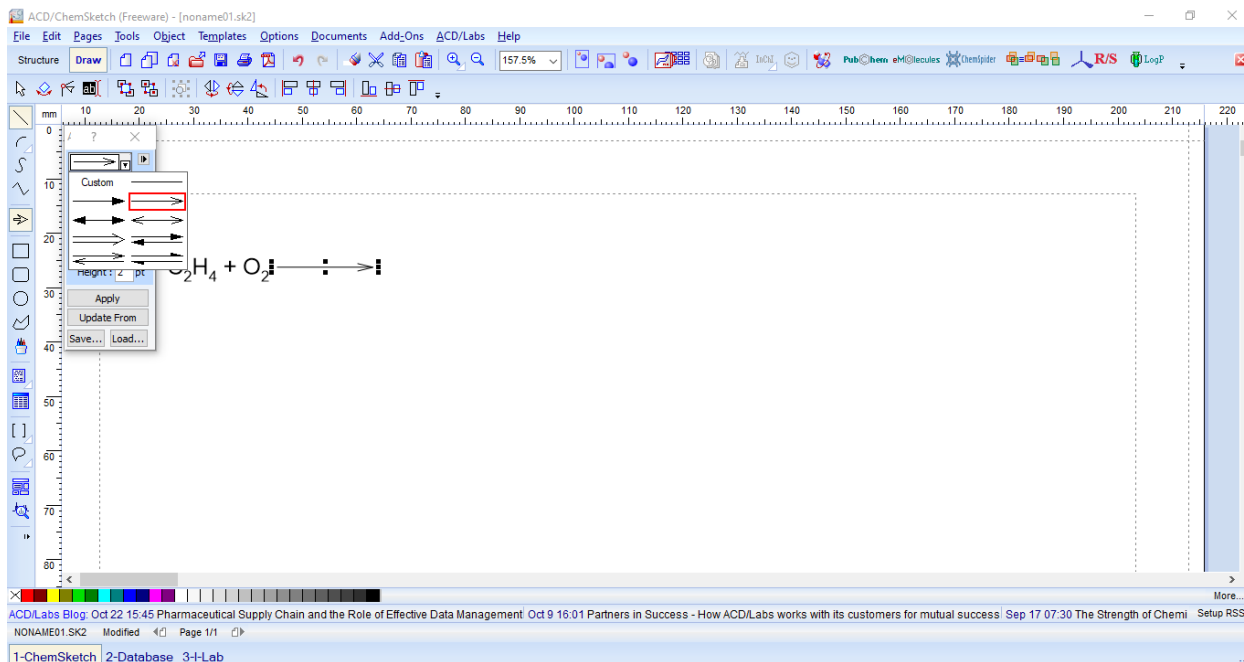
X.2. Aktifkan edit text , Klik kan di lembar kerja dan ketik rumus molekul reaksi



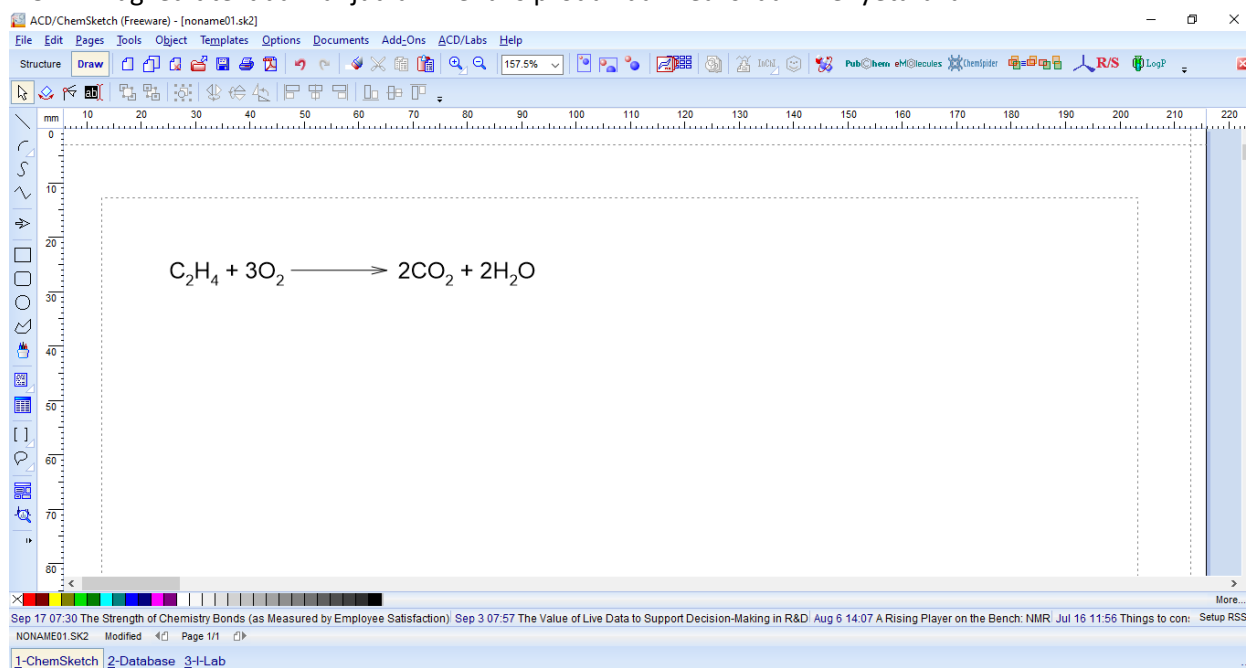
X.3. Klik Arrow untuk menggambar panah reaksi



X.4. Begitu kita klik dalam Lembar kerja, akan muncul berbagai bentuk panah reaksi, Pilih salah satu

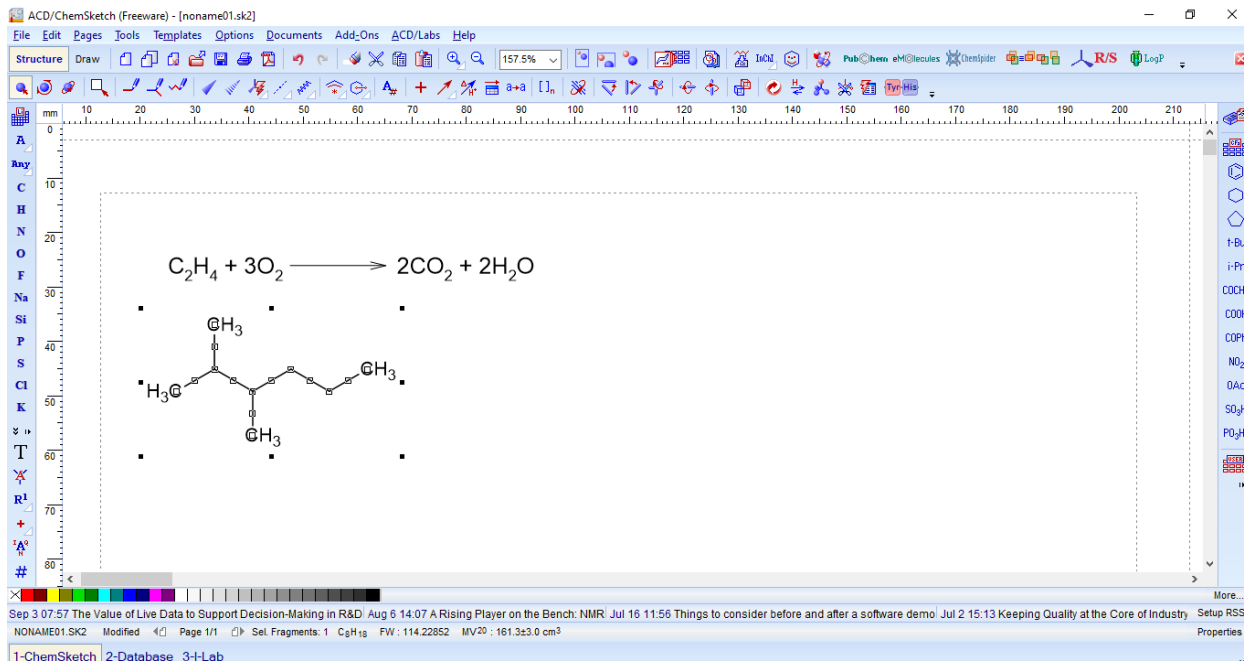


X.5. Klik lagi edit text dan lanjutkan menulis produk dari reaksi dan menyetarakan

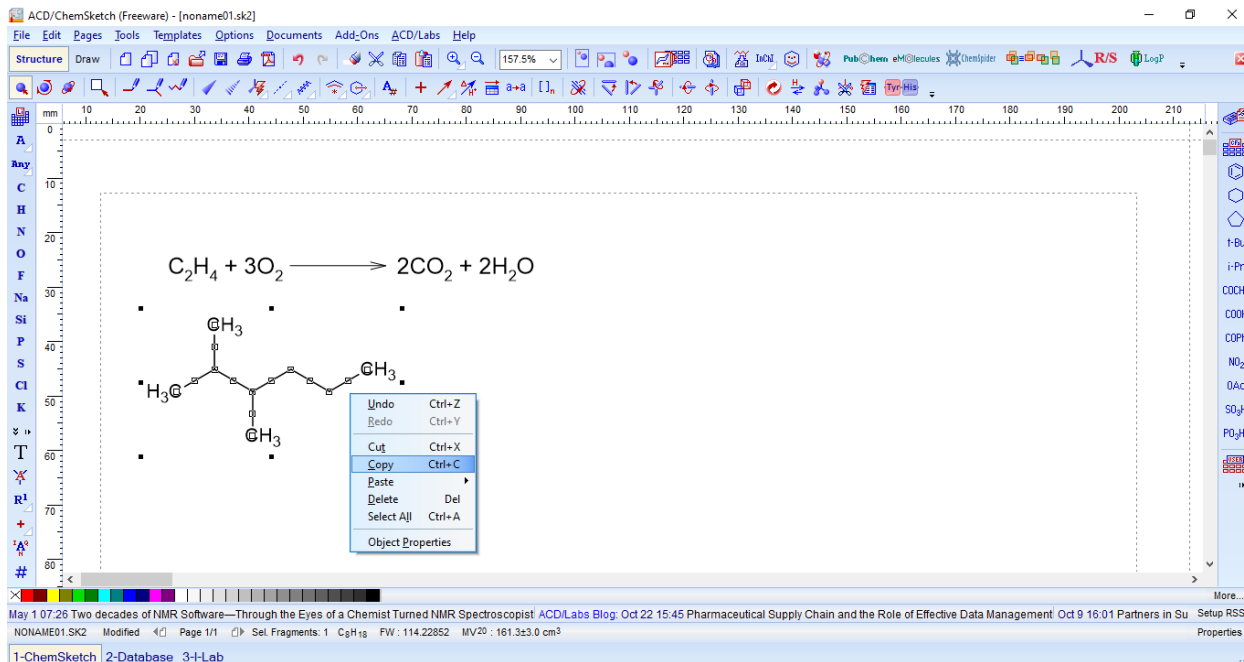


BAB XI. Memindahkan Gambar dari Lembar Kerja ChemSketch ke Power Point

XI.1. Aktifkan senyawa yang akan dipindahkan



XI.2. Klik kanan → copy



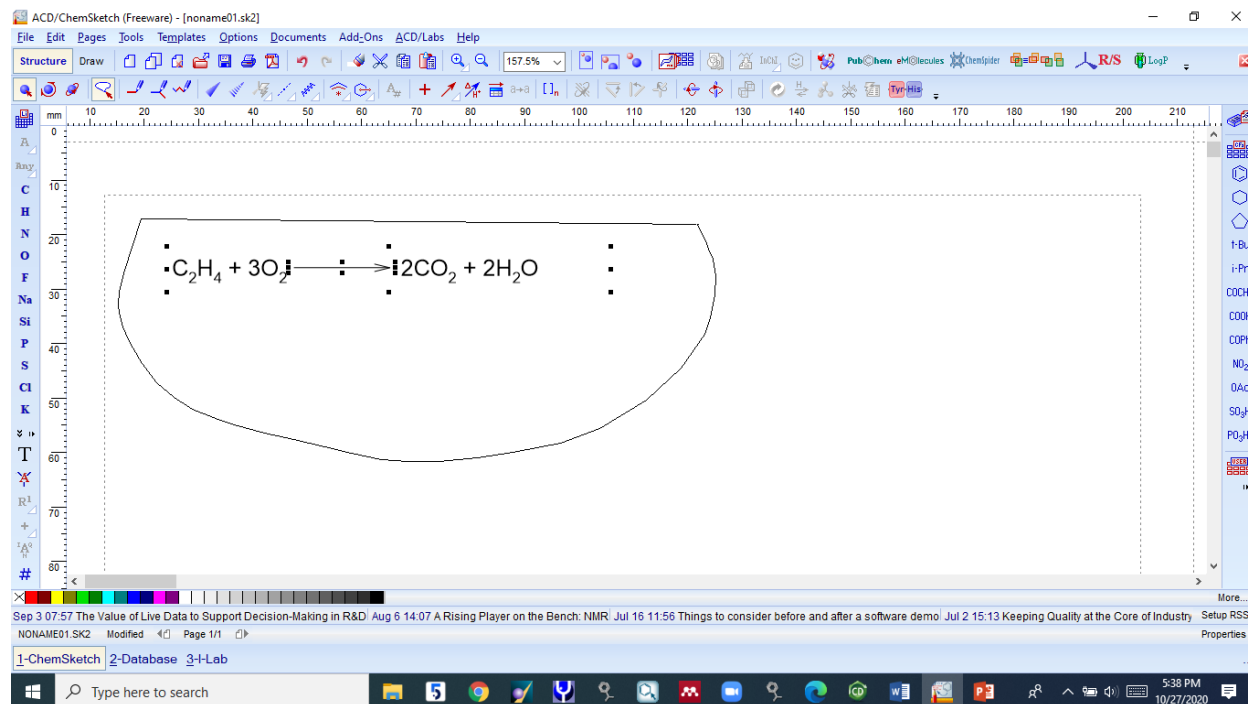
XI.3. Pindah ke lembar kerja power point, klik kanan → paste

The screenshot shows the Microsoft PowerPoint interface. The ribbon includes File, Home, Insert, Design, Transitions, Animations, Slide Show, Review, View, and ACROBAT. The Home ribbon is active, showing options for Clipboard, Slides, Font, Paragraph, Drawing, and Editing. The main slide area contains a chemical structure of 2,3-dimethylpentan-3-ol. A 'Paste Options' menu is open over the structure, with the 'Paste (P)' option selected. The status bar at the bottom indicates 'Slide 1 of 1', 'English (United States)', and a zoom level of 70%.

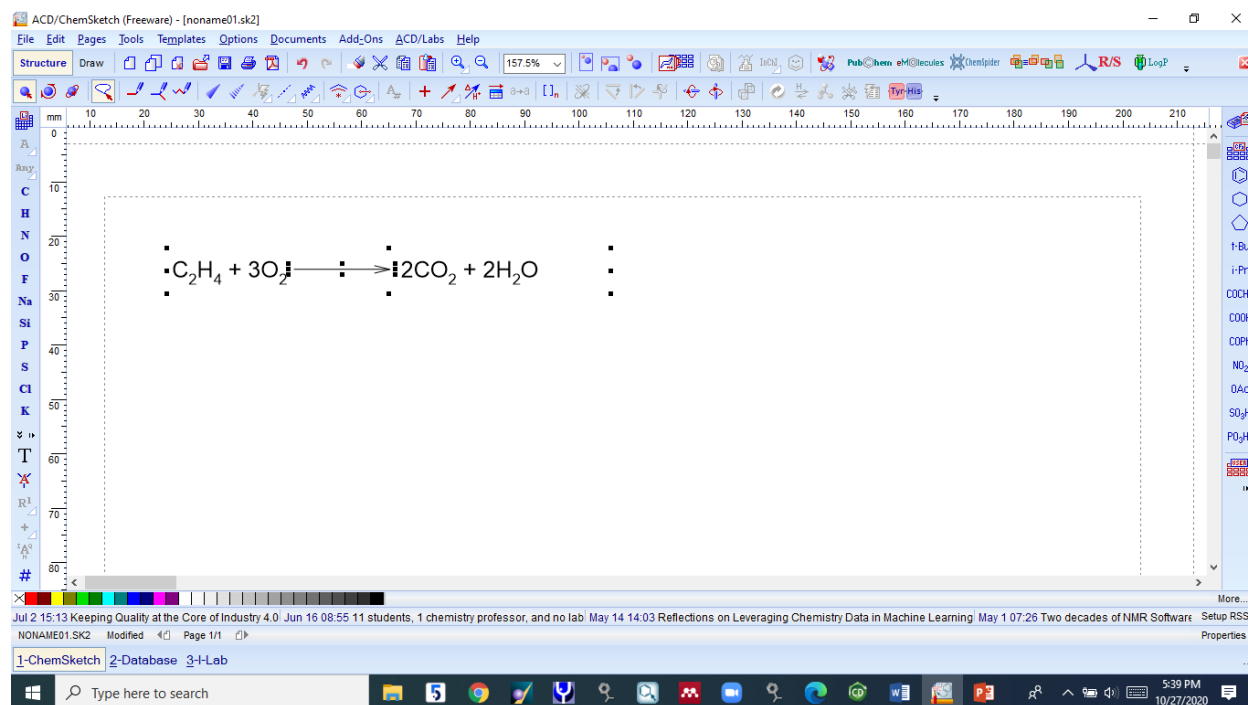
XI.4. Tampilan setelah di copy-paste

This screenshot shows the same PowerPoint slide after the chemical structure has been copied and pasted into the slide thumbnail. The thumbnail on the left now displays the chemical structure of 2,3-dimethylpentan-3-ol. The main slide area remains empty, and the 'Paste Options' menu is no longer visible.

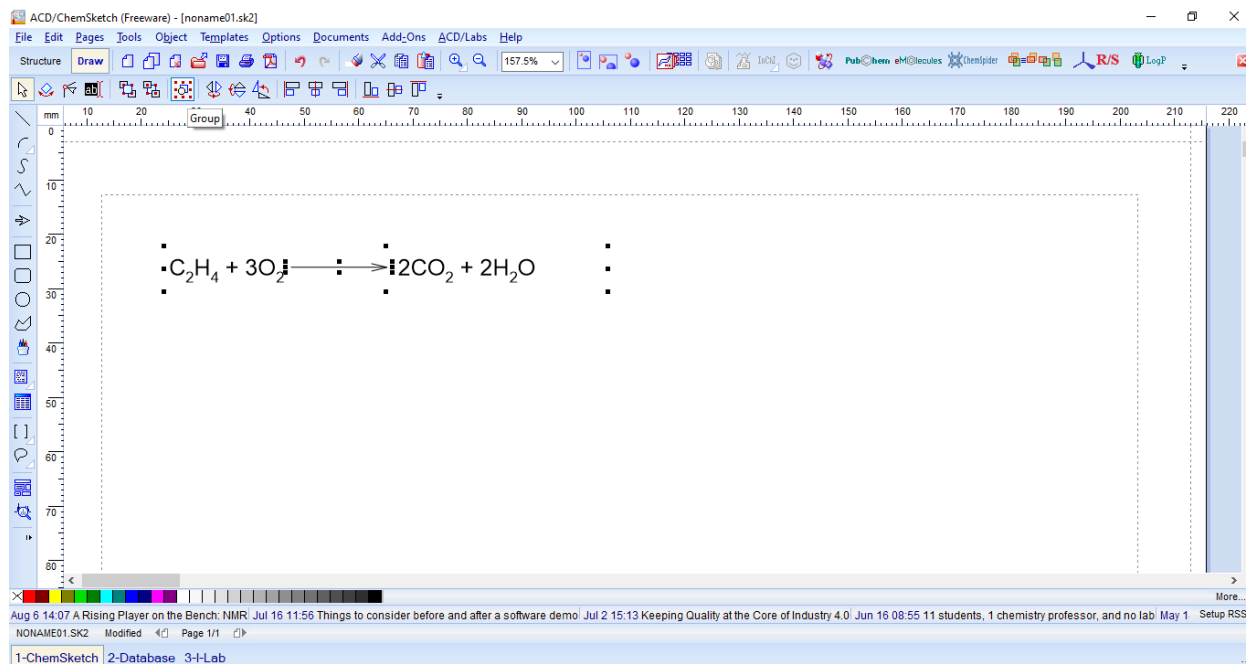
XI.5. Untuk copy paste persamaan reaksi, harus di grouping terlebih dahulu, dengan cara : aktifkan persamaan reaksi dengan Lasso



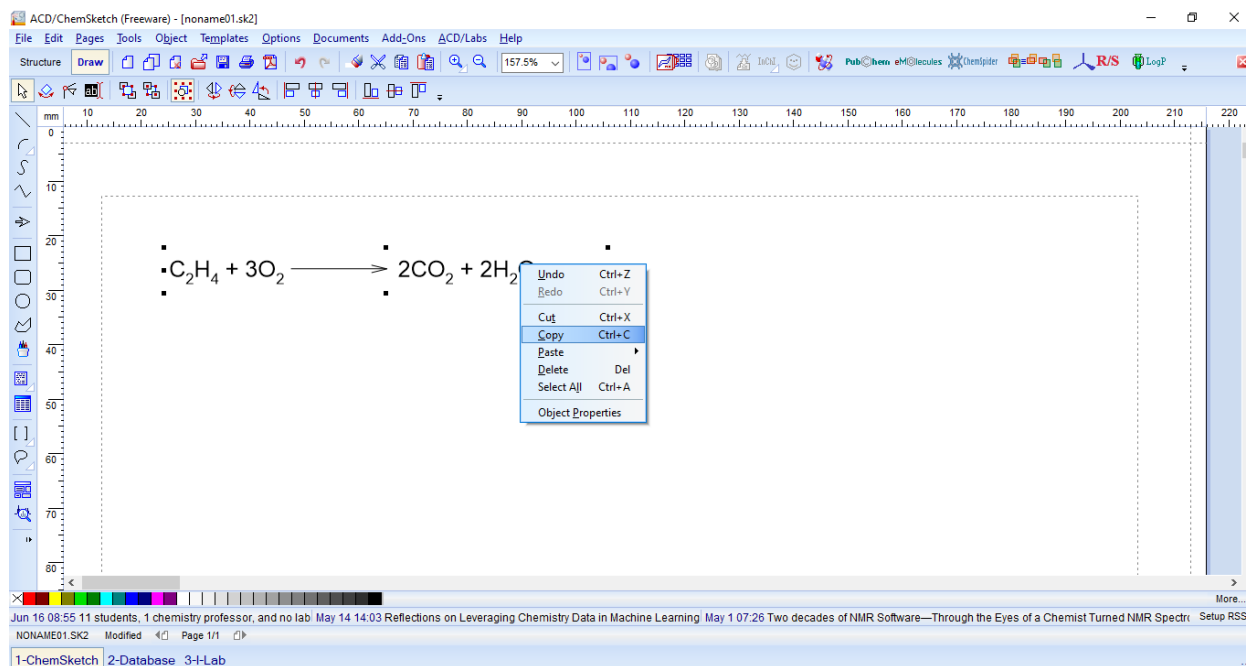
XI.6. Tampilan persamaan reaksi yang aktif



XI.7. Klik Group pada mode Draw



XI.8. Klik Kanan → Copy



XI.9. Klik kanan → Paste pada lembar power point

The screenshot shows a PowerPoint slide titled "Presentation1 - PowerPoint". The slide content includes a chemical structure of 2,3-dimethylpentane and the chemical equation $C_7H_{16} + 3O_2 \rightarrow 2CO_2 + 2H_2O$. A context menu is open over the equation, showing "Paste Options" and a "Paste (P)" button. The slide is labeled "Slide 1 of 1" and the language is "English (United States)".

The screenshot shows the same PowerPoint slide as above, but the context menu is closed. The chemical structure and equation are clearly visible. The slide is labeled "Slide 1 of 1" and the language is "English (United States)".