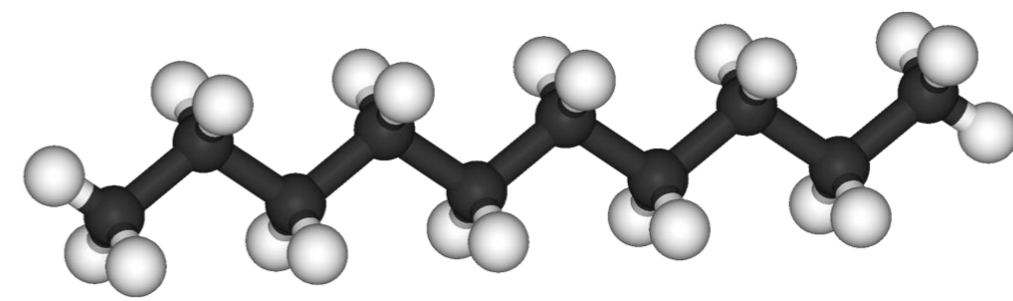
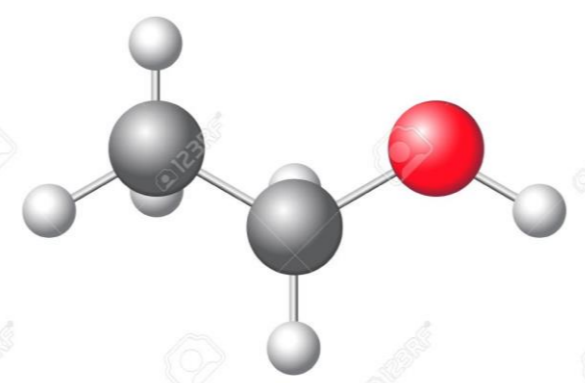
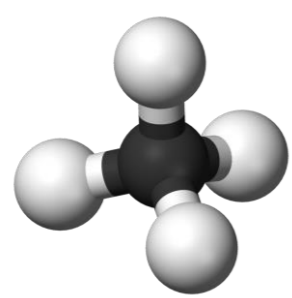


Innovation path

Synthesis test rig

- **Fabrication of different products :**
Methane, Methanol, Naphtha, Petrol, Diesel, Wax,
Ethylene from H_2 and CO/CO_2



- **Utilisation of different feedstocks:**
 CO_2 from flue gas, H_2 from electrolysis, H_2/CO -mixture (Synthesis gas) from biomass, sewage sludge, waste
- **Testing of catalysts and syntheses**



Mobile container flexible use

Inside the container, test equipment, online analysis and control technology are mounted. The container can be transported by truck and is currently (2020/22) used within the framework of several publicly funded projects at Darmstadt University.



Equipment in a safe environment

The reactors and all further equipment as instruments and piping are assembled inside a separate containment which is vented with high air exchange to avoid explosive gas accumulation even in case of leakages. Various synthesis reactions can be investigated by application of different catalysts and by individual adaptation of the equipment to the respective processes.