



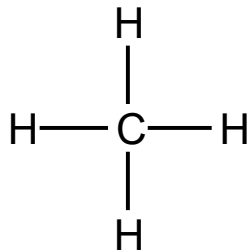
WWW.CHEMSHEETS.CO.UK

CRUDE OIL

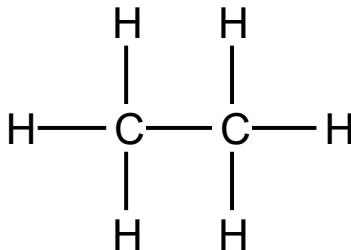




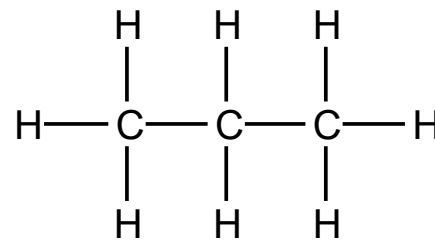
methane



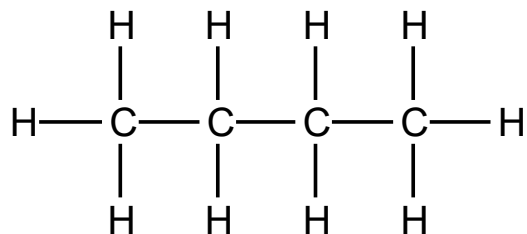
ethane



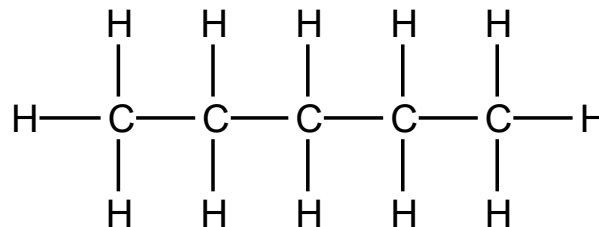
propane



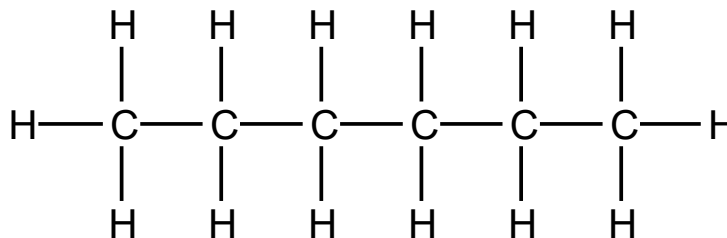
butane

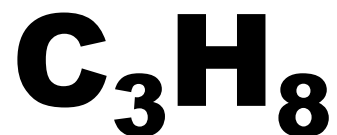


pentane



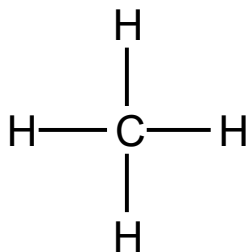
hexane



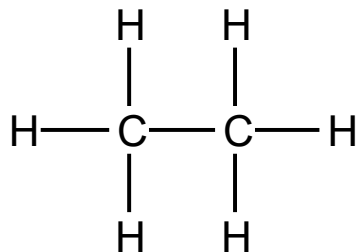


If there are **n** C atoms,
how many H atoms?

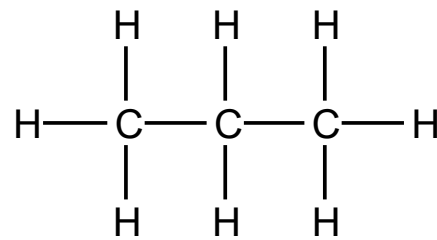




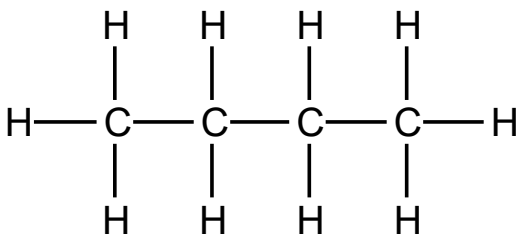
-162°C



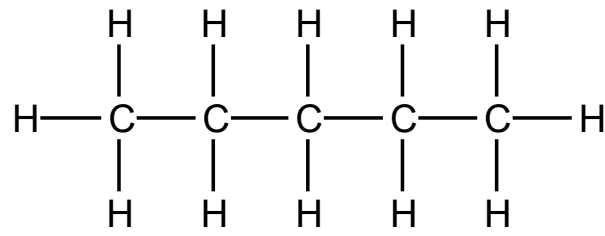
-89°C



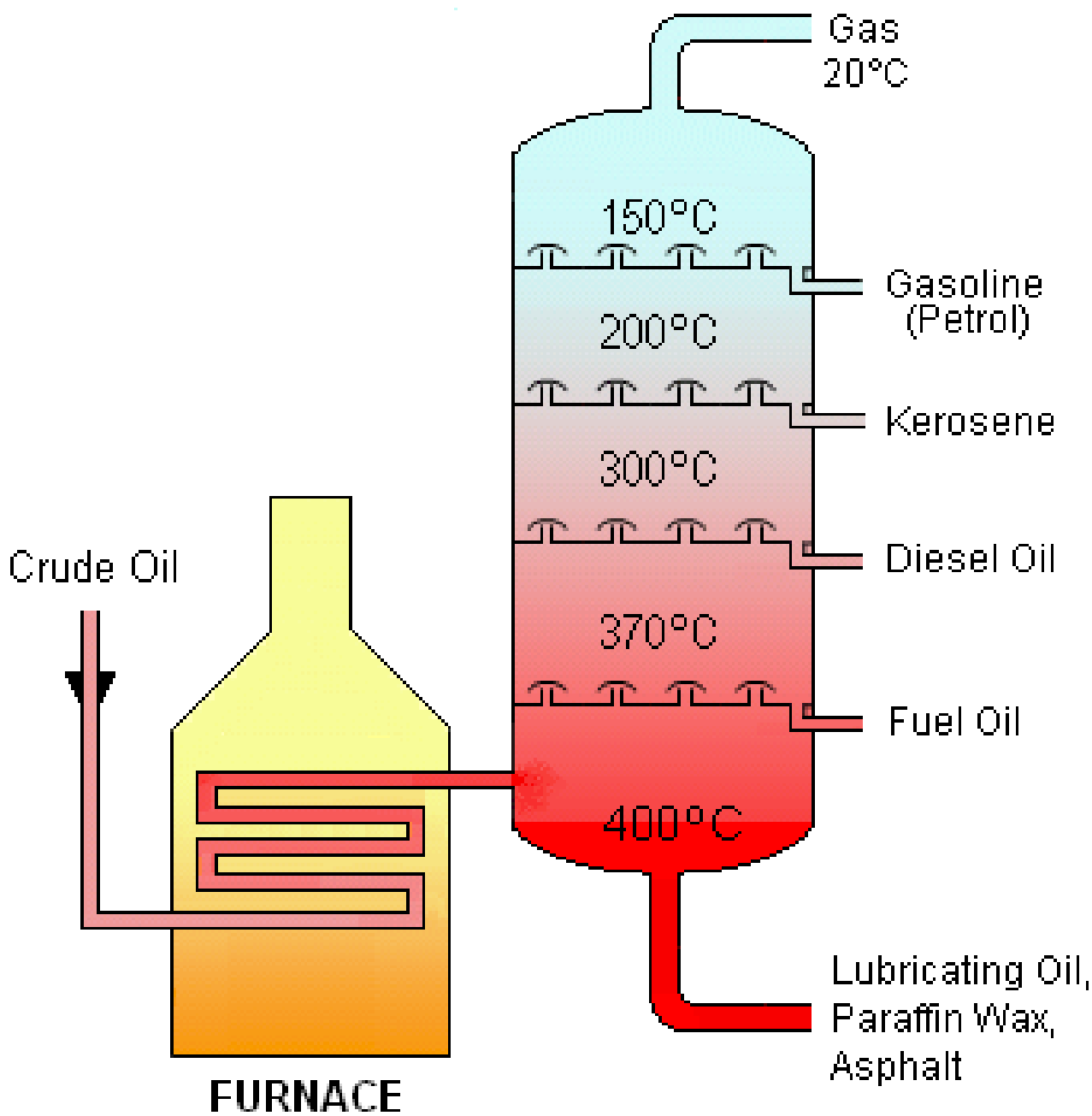
-42°C



-1°C



36°C



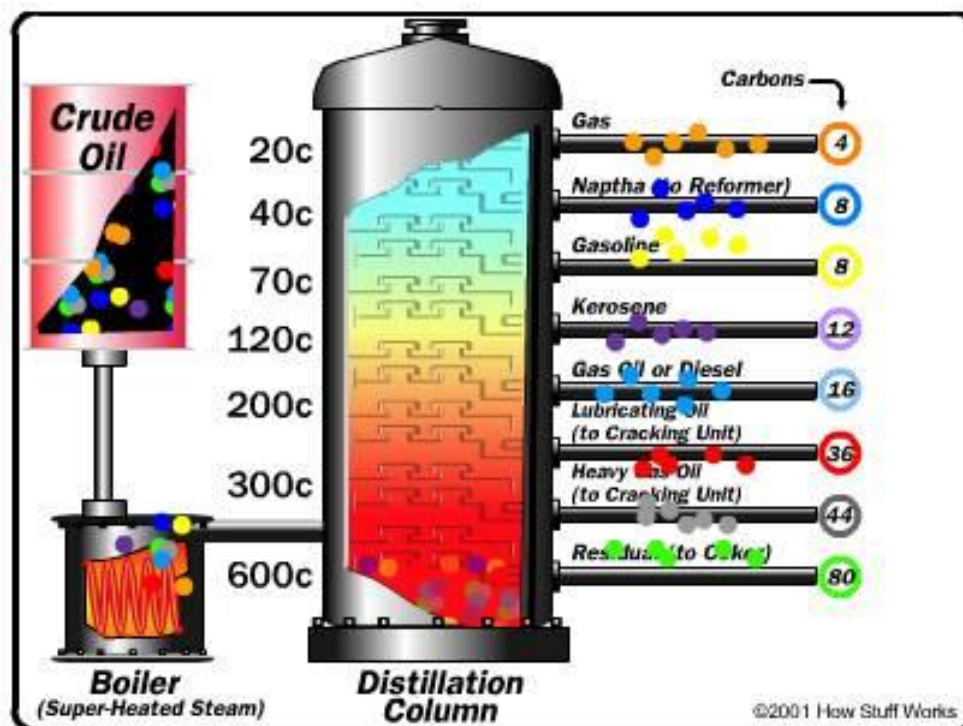
See **ANIMATED VERSION** © How Stuff Works

<http://science.howstuffworks.com/environmental/energy/oil-refining4.htm>

Bigger version at:

<http://www.echalk.co.uk/Science/chemistry/howStuffWorks/distillation.htm> or

<http://chemicalminds.wikispaces.com/file/view/Oil%20refinery.swf>



VIDEOS & ANIMATIONS

BP Education Site

<http://bpes.bp.com/secondary-resources/science/ages-14-to-16/chemical-and-material-behaviour/hydrocarbons-from-crude-oil/>



Uses of Crude Oil Derivatives video

Short video looking at the uses of crude oil derivatives (3:10).

VIDEO File

Launch ►

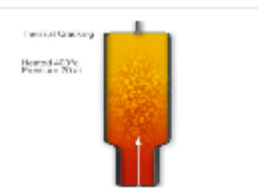


Composition and Refining of Crude Oil video

Short video looking at the composition and refining of crude oil (2:54).

VIDEO File

Launch ►

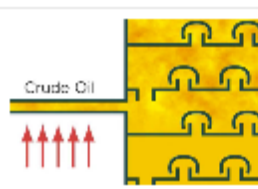


Cracking animation

Short animation looking at cracking (1:56).

VIDEO File

Launch ►



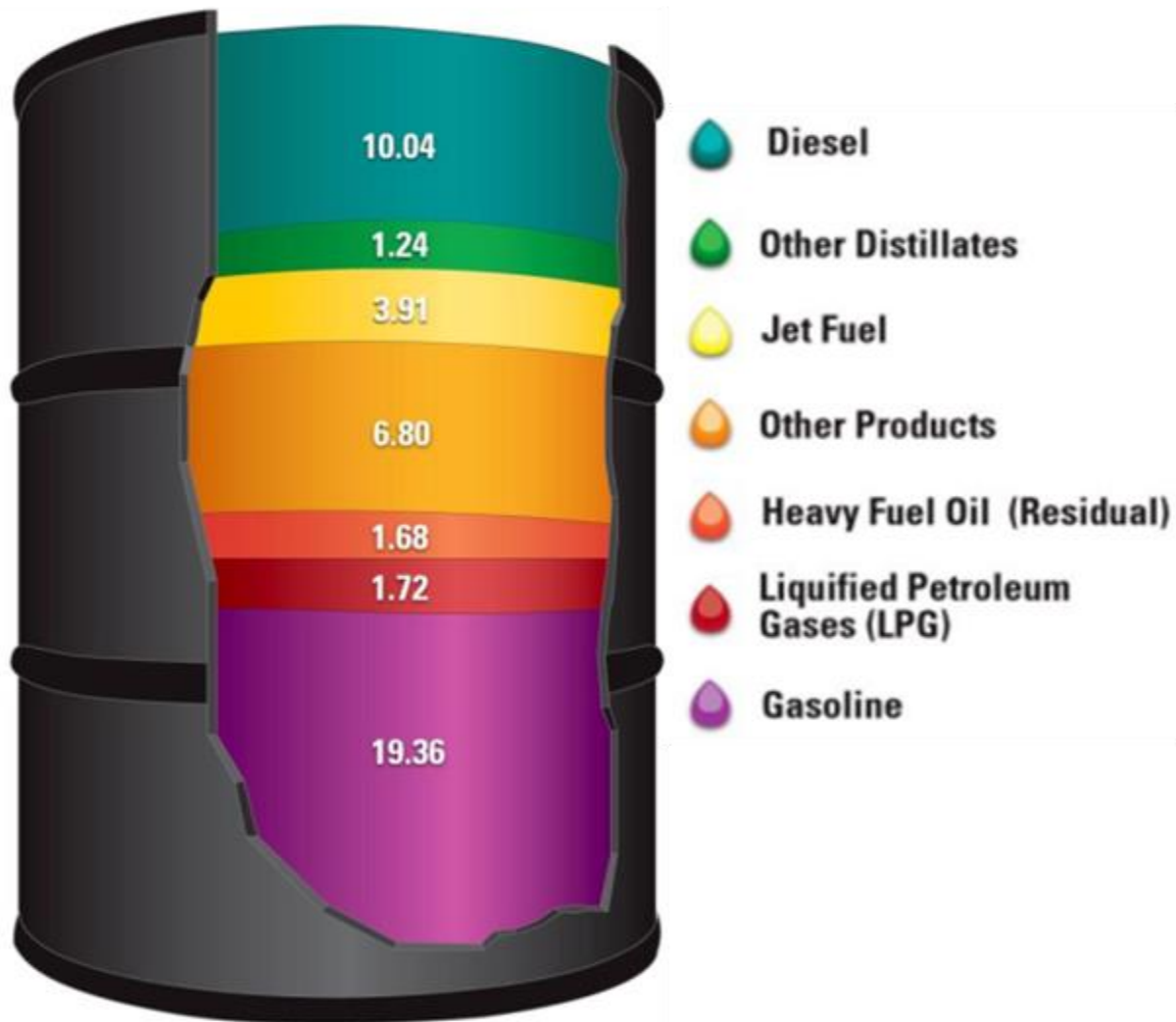
Fractional Distillation animation

Short animation looking at the topic of fractional distillation (1:53).

VIDEO File

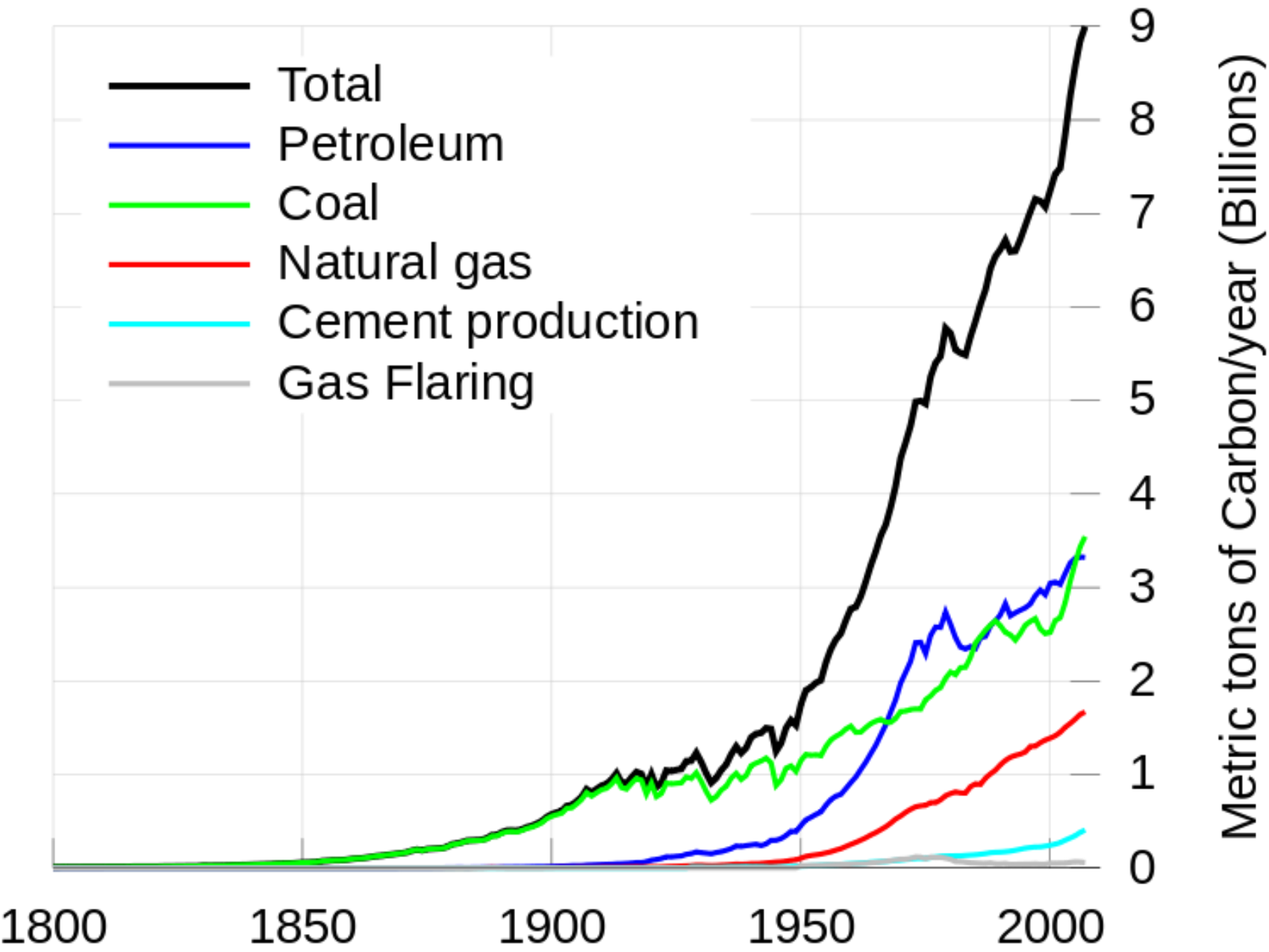
Products Made from a Barrel of Crude Oil (Gallons)

(2009)



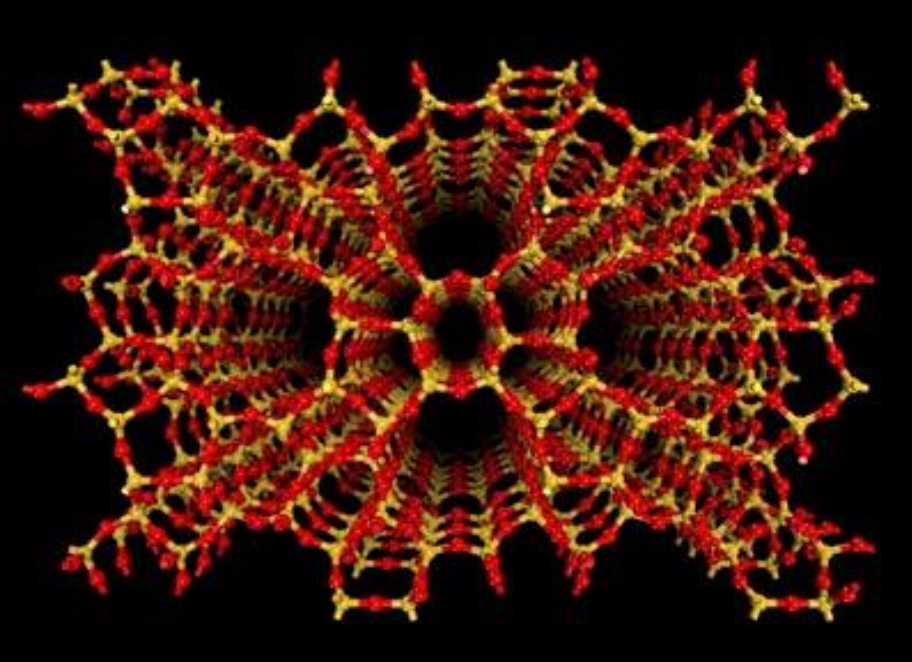
*From Energy.gov
(US data)*

From Wikipedia



CRACKING

Thermal cracking		Catalytic cracking
900°C	Temperature	450°C
70 atm	Pressure	1-2 atm
none	Catalyst	zeolites
alkenes	Products	Motor fuels Aromatic hydrocarbons Cyclic alkanes Branched alkanes



Zeolite catalysts

