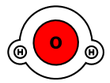
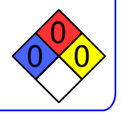
WATER



H_2O 18 g/mol

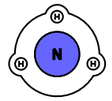
From a drop of water a logician could infer the possibility of an Atlantic or a Niagara without having seen or heard of one or the other. -- Arthur Conan Doyle



AMMONIA

azane

hydrogen nitride

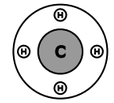


NH_3 17 g/mol

Spirit of Hartshorn.--This volatile liquor often affords immediate relief in cases of lowness of spirits, fainting, and hysteric fits. It may be rubbed over the temples, and applied to the nostrils.

METHANE

natural gas (80%)



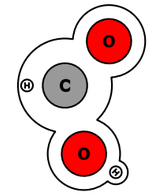
CH_4 16 g/mol

The United Nations has declared the methane from cow emissions the greatest threat to the climate, forests, and wildlife.

alkane

FORMIC ACID

methanoic acid

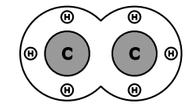


HCOOH 46 g/mol

pismire (n.) an archaic or dialect word for an ant. (literally: urinating ant, from the odour of formic acid characteristic of an ant hill)

acid

ETHANE



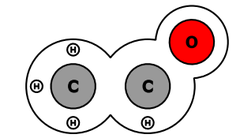
C_2H_6 30 g/mol

alkane

ACETALDEHYDE

ethyl aldehyde

ethanal

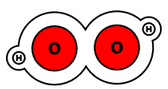


C_2H_4O 44 g/mol

Description: Distinctive, straw-like, somewhat acrid character; sherry-like. Prevention: Minimize exposure of finished wines to air.

aldehyde

HYDROGEN PEROXIDE



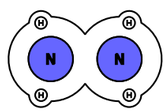
H_2O_2 34 g/mol

Bleach, disinfectant, rocket propellant

HYDRAZINE

diamine

diazane



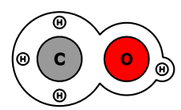
N_2H_4 32 g/mol

Hydrazine was first used as a rocket fuel during World War II for the the first rocket-powered fighter plane under the code name B-Stoff.

METHANOL

wood alcohol

methyl alcohol



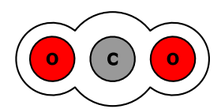
CH_3OH 32 g/mol

Beware of bad moonshine: two shots blind you, three shots kill you.

alcohol

CARBON DIOXIDE

air (1%)



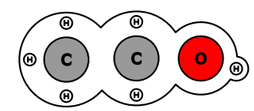
CO_2 44 g/mol

As a scientist, my attention became totally focused on global warming some 15 years ago by the elegant and powerful measurements of carbon dioxide trapped in ice cores taken as much as 2 miles deep from the great East Antarctica ice sheet. -- John Olver

ETHANOL

grain alcohol

ethyl alcohol



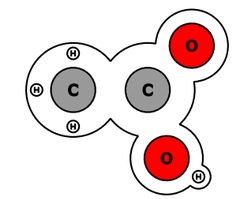
C_2H_5OH 46 g/mol

Shaken, not stirred.

alcohol

ACETIC ACID

vinegar (10%)



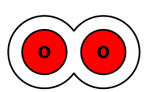
CH_3COOH 60 g/mol

The best wine doth make the sharpest vinegar. -- John Lyly

acid

OXYGEN

air (21%)



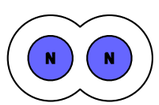
O_2 32 g/mol

Among the notable things about fire is that it also requires oxygen to burn - exactly like its enemy, life. Thereby are life and flames so often compared. -- Otto Weininger

gas

NITROGEN

air (80%)



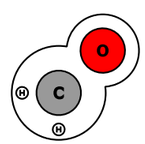
N_2 28 g/mol

All we are is a lot of talking nitrogen. -- Arthur Miller

FORMALDEHYDE

methanal

formalin

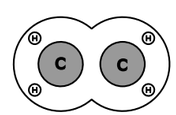


CH_2O 30 g/mol

Formaldehyde mixed with blood causes the grey discoloration known as 'embalmer's grey'.

aldehyde

ETHYLENE

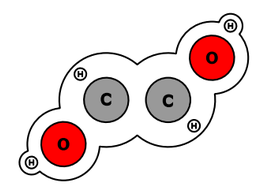


C_2H_4 28 g/mol

Ethylene...why can't you be true?

alkene

ETHYLENE GLYCOL

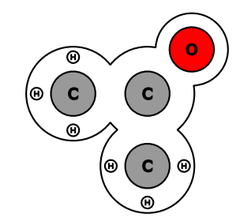


$C_2H_6O_2$ 62 g/mol

It was the mechanic, in the garage, with the antifreeze.

alcohol

ACETONE



$(CH_3)_2CO$ 58 g/mol

In a pinch, diabetic urine could be used to remove nail polish.

ketone