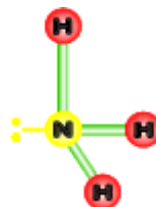


## Ammonia Physical and Chemical Properties (NH<sub>3</sub>)



### Ammonia molecule Structure (Ball & Stick):

Physical state at 20 °C :	Liquefied gas.
Colour :	Colorless.
Odour :	Ammoniacal.
Molecular weight :	17
Melting point [ °C] :	-77.7
Boiling point [ °C] :	-33
Critical temperature [ °C] :	133
Vapour pressure, 20 °C :	125psi
Specific Gravity of Gas (air=1) :	0.596 at 0°C
Specific Gravity of Liquid (water=1) :	0.682 at -33°C
Vapor Density (air = 1):	0.77 kg/m <sup>3</sup> at 0 °C
Liquid Density:	609 kg/m <sup>3</sup> at 21°C
Weight (1lts.) :	0.617 kg at -9 °C
Solubility in Water (1000kgs):	869 kg at 0°C
pH :	N/A
Flammability range [vol% in air] :	15 to 30
Auto-ignition temperature [ °C] :	630
Other data :	Although this substance has flammability data, it is difficult to ignite in air and is classified as non-flammable.