

9. Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Pungent.
Odor threshold	Not available.
pH	< 1 Very acidic.
Melting point/freezing point	-18.5 °F (-28.08 °C) estimated
Initial boiling point and boiling range	249.8 °F (121 °C) Constant boiling composition.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	48 torr @ 20 C
Vapor density	2 - 3
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.41 g/cm ³
Molecular formula	HNO ₃
Molecular weight	63.01
Percent volatile	100 %
Specific gravity	1.408

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Risk of explosion. Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts violently with strong alkaline substances. This product may react with reducing agents. Do not mix with other chemicals.
Incompatible materials	Incompatible with bases. Combustible material. Alcohols. This product may react with reducing agents. Contact with metals may evolve flammable hydrogen gas. Flammable materials. Reducing agents.
Hazardous decomposition products	Nitrogen oxides (NO _x), nitrogen oxides (NO _x)