

Appearance:	Clear liquid free from precipitation's and mechanical impurities.
HNO3	64 ± 1 wt %
HNO2	Max 0.15 wt %
Residue on ignition	Max 0.03 wt %

### NITRIC ACID PHYSICAL PROPERTIES

Formula	HNO3
Molecular Weight	63.013
Freezing Point , °C (100 % HNO3)	-41.59
Boling Point , °C (100% HNO3)	86.0
Critical Temperature , °C	247
Critical Pressure , Bar	68.9
Critical Volume , Vc , cm3/mol	145.00
Auto Ignition Temperature, °C	
Lower Flammable Limit, Vol %	
Upper Flammable Limit, Vol %	
Density , (100 % HNO3)	
Liquid @ 20 °C , kg/m3	1540
Liquid @ 30 °C , kg/m3	1495
Viscosity , (95 % HNO3)	
Liquid @ 20 °C , mPas	1.2
Liquid @ 70 °C , mPas	0.6

### NITRIC ACID THERMODYNAMICAL PROPERTIES

Molecular Weight	63.013
Heats (Enthalpy) of Formation	
@ 298 K , kJ/kmol	
Gas	-
Liquid	-173233.5
(Gibbs) Free Energy of Formation	
@ 298 K , kJ/kmol	-79914.0
Specific Heat of Liquid (100 % HNO3)	
Cp @ 20 °C , kJ/kmol	1.757
Thermal Conductivity , Gas @ 0 °C , W/m , K	-
Latent Heat of Vaporization (100 % HNO3)	
@ 20 °C , kJ/kg	626.1