Introduction and use of nitrous oxide gas

Chemical name: nitrous oxide [compressed]; nitrous oxide; laughing gas Chemical English name: Nitrogen oxide (compressed); laughing gas GAS #: 10024-97-2

molecular formula:N₂O

Molecular weight: 44.02

Recommended and restricted use of chemicals: for industry and specialty; risk assessment before use; for medical anesthetics, preservatives, and for air tightness; test / calibration gases; laboratory use; chemical reaction / synthesis; aerosol injection; for electronic / photovoltaic module manufacturing.

Nitrous oxide (Nitrous oxide), chemical formula N₂O, a colorless and sweet gas, is an oxidant, a dangerous chemical. Because after inhalation will feel euphoria, and can make people laugh, also known as "laughing gas". It is often used as a food additive, such as foaming cream, and is called "cream gas bomb". Nitrous oxide was used in anesthesia for dental surgery, and is one of the first human anesthetic used in medical treatment. Its anesthetic effect was discovered in 1799 by the British chemist Humphrey David^[1]. Nitrous oxide can support combustion under certain conditions, but stable at room temperature, soluble in water, ethanol, ether and concentrated sulfuric acid, can be used in surgery and dentistry for anesthesia and analgesia, as well as as rocket racing oxidant, and increase the output power of the engine.

matter	component	CAS No	potency		
mixture	laughing gas	10024-97-2			
Appearance and traits	Colorless gas, with a sweet taste				
PH price	insignificance	melting point (°C)	-90.8		
boiling point (°C)	-88.5	Relative density (water =1)	1.23 (-89°C)		
Relative vapour density (air =1)	1.53 (25°C)	Saturated steam pressure (kpa)	506.62 (-58°C)		
Heat of combustion (kj / mol)	non-avaible	critical temperatures (°C)	36.5		
Critical Pressure (Mpa)	7.26	Octanol / water distribution coefficient	0.35		
flash point (°C)	insignificance	autogenous ignition temperature (°C)	insignificance		
low explosive limit (%)	insignificance	upper explosive limit (%)	insignificance		
decomposition temperature (℃)	non-avaible	viscosity (mPa.S)	0.01(25℃		

solubility	Microsoluble	in	water,	dissolved	in	ethanol,	ether,
	concentrated sulfuric acid						

stability	stabilize				
Dangerous	Contact with st	rong reducing ag	ents, flammable or		
reaction	combustible substances and other prohibited compounds, there				
	is a risk of fire or explosion				
Conditions to	non-avaible	Hazardous	non-avaible		
avoid contact		decomposition			
		product			
Ban the match	Strong reducing agent, flammable or combustible, ether,				
	ethylene				