



Neutron[®]

Pharmaceutical Co.

CLEANING & DISINFECTION

REAGENT



Responsible For Quality
(+98) 21 66 90 67 32-3
www.neutronpharmaceutical.com



Citric acid Solution 50%

Cleaning solution

C₆H₈O₇

M= 192.13 g/mol

Specification

Assay		50.0 – 52.0	%
Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Heavy metals	≤	0.001	%
Sulfate	≤	0.015	%
Residue on ignition	≤	0.1	%
Clarity of solution		Conforms	
Color of solution		Conforms	
Limit of oxalic acid	≤	0.036	%
Readily carbonizable sub.		Conforms	

Glass Bottles		
1	Liter	
2.5	Liter	

Plastic Bottles		
1	Liter	
2.5	Liter	●

Plastic Gallon		
5	Liter	●
10	Liter	●
20	Liter	●



Product Code: 1.2210.

Technical Information

Formula:	C ₆ H ₈ O ₇
Chemical formula:	(HO ⁺ CCH ₂) ₂ C(OH)COOH
Molar mass:	192.13 g/mol
CAS number:	77-92-9
HS code:	29181400
EC number:	201-069-1
Storage (temperature):	Without limitations.
SDS	available
RTECS:	GE7350000
R phrase:	R 36
S phrase:	S 26
Odour:	odourless

Formaldehyde 10%

Cleaning & Disinfection Reagent

CH₂O

M=30.03 g/mol

1lit= 0.98 g/cm³

Specification

Assay	~	10.0	%
Description		Conforms	
Solubility		Conforms	
Identification		Conforms	
Acidity	≤	10.0	ml

Glass Bottles		
1	Liter	●
2.5	Liter	●

Plastic Bottles		
1	Liter	
2.5	Liter	●

Plastic Gallon		
5	Liter	
10	Liter	
20	Liter	



Product Code: 1.1150.

Technical Information

HS code:	29121100
Storage (temperature):	store at +15 °C to +25 °C
SDS	available
R phrase	R 23/24/25-34-39/23/24
S phrase	S 26-36/37/39-45-51
Odour:	pungent
Form:	liquid
Color:	colourless
Explosion limit	7-73 Vol%(formaldehyde)
Ignition temperature	~300 °C(formaldehyde)
Solubility in water	(20 °C) soluble
Solubility in ethanol:	(20 °C) soluble
Flash point:	>62 °C
Boiling time:	93-96 °C
Melting point	<-15 °C

Formaldehyde 37%

Cleaning & Disinfection Reagent

CH₂O

M= 30.03 g/mol

1lit= 1.08 g/cm³

Specification

Assay	35.0-37.0	%
Description	Conforms	
Solubility	Conforms	
Identification	Conforms	
Density	~ 1.08	g/cm ³
Acidity	≤ 10.0	ml
Methanol	~ 9.0	%

Glass Bottles		
1	Liter	●
2.5	Liter	●

Plastic Bottles		
1	Liter	
2.5	Liter	●

Plastic Gallon		
5	Liter	
10	Liter	
20	Liter	

Product Code: 1.1160.

Technical Information

Density	1.08 g/cm ³ (20 °C)
HS code:	29121100
Storage (temperature):	store at +15 °C to +25 °C
SDS	available
R phrase	R 23/24/25-34-39/23/24
S phrase	S 26-36/37/39-45-51
Odour:	pungent
Form:	liquid
Color:	colourless
Explosion limit	7-73 Vol%(formaldehyde)
Ignition temperature	~300 °C(formaldehyde)
Solubility in water	(20 °C) soluble
Solubility in ethanol:	(20 °C) soluble
Flash point:	>62 °C
Boiling time:	93-96 °C
Melting point	<-15 °C



Hydrogen peroxide 6% (Stabilized)

Cleaning & Disinfection Reagent

H₂O₂

M= 34.01 g/mol

1lit= 1.03 g/cm³

Specification

Assay	5.8 - 6.2	%
Description	Conforms	
Identification	Conforms	
Acidity	≤ 2.5	ml
Chloride (Cl)	≤ 0.005	%
Limit of nonvolatile residue	≤ 30.0	mg
Heavy metals	≤ 5.0	ppm

Glass Bottles		
1	Liter	●
2.5	Liter	●

Plastic Bottles		
1	Liter	
2.5	Liter	●

Plastic Gallon		
5	Liter	
10	Liter	
20	Liter	

Product Code: 1.3310.

Technical Information

Density:	1.03 g/cm ³ (20 °C)
HS code:	28470000
Storage (temperature):	Store at +2 °C to +25 °C
SDS	available
R phrase:	R 22-37/38-41
S phrase:	S 26-39
Odour:	slightly pungent
Form:	liquid
Color:	colourless
Solubility in water:	(20 °C) soluble
Boiling point:	~ 110 °C
Melting point:	~ -24 °C
Vapour pressure:	~ 20 hPa (20 °C)
Thermal decomposition:	> 100 °C





Hydrogen peroxide 35% (Stabilized) **Product Code: 1.1210.**

Cleaning & Disinfection Reagent

H₂O₂

M= 34.01 g/mol

1 lit= 1.13 g/cm³

Specification

Assay		30.0 – 35.0	%
Description		Conforms	
Identification		Conforms	
Acidity	≤	2.5	ml
Chloride (Cl)	≤	0.005	%
Limit of nonvolatile residue	≤	30.0	mg
Heavy metals	≤	5.0	ppm

Glass Bottles			Plastic Bottles			Plastic Gallon		
1	Liter		1	Liter		5	Liter	
2.5	Liter		2.5	Liter	●	10	Liter	
						20	Liter	

Technical Information

Density:	1.13 g/cm ³ (20 °C)
HS code:	28470000
Storage (temperature):	Store at +2 °C to +25 °C
SDS	available
R phrase:	R 22-37/38-41
S phrase:	S 26-39
Odour:	slightly pungent
Form:	liquid
Color:	colourless
Solubility in water:	(20 °C) soluble
Boiling point:	~ 110 °C
Melting point:	~ -24 °C
Vapour pressure:	~ 20 hPa (20 °C)
Thermal decomposition:	> 100 °C



2 – Propanol 70% (iso Propanol 70 %)

Cleaning & Disinfection Reagent

C₃H₈O

M= 60.10 g/mol

1lit= 0.87 g/cm³

Specification

Assay		68.0 – 72.0	%
Solubility		Conforms	
Description		Conforms	
Identification		Conforms	
Evaporation residue	≤	0.002	%

Glass Bottles			Plastic Bottles			Plastic Gallon		
1	Liter	●	1	Liter		5	Liter	
2.5	Liter	●	2.5	Liter	●	10	Liter	
						20	Liter	

Product Code: 1.1930.

Technical Information

Formula:	C ₃ H ₈ O
Chemical formula:	CH ₃ CH(OH)CH ₃
Density:	0.887 g/cm ³ (20 °C)
Molar mass:	60.10 g/mol
CAS number:	67-63-0
EC index number:	603-117-00-0
HS code:	29051200
EC number:	200-661-7
Storage (temperature):	Store at +5 °C to +30 °C
SDS	available
RTECS:	NT8050000
R phrase:	R 11-36-67
S phrase:	S 7-16-24/25-26
Odour:	alcohol-like
Form:	liquid
Color:	colourless
Explosion limit:	2 - 12.7 Vol %
Ignition temperature:	425 °C (DIN 51794)
Solubility in water:	(20 °C) soluble
Solubility in ethanol:	soluble
Solubility in chloroform:	soluble
Flash point:	12 °C (c.c.)
Boiling point:	82.4 °C (1013 hPa)
Melting point:	-89.5 °C
Vapour pressure:	43 hPa (20 °C)
Viscosity dynamical:	2.2 mPa*s (20 °C)
Saturation concentration (air):	105 g/m ³ (20 °C)



Sodium hypochlorite (6-14%)

Cleaning & Disinfection Reagent

NaClO (6-14% active chlorine)

M= 122.12 g/mol

1lit= 1.22 g/cm³

Specification

Assay	6.0 – 14.0	%
Description	Conforms	
Solubility	Conforms	
Identification	Conforms	

Glass Bottles			Plastic Bottles			Plastic Gallon		
1	Liter		1	Liter		5	Liter	●
2.5	Liter		2.5	Liter	●	10	Liter	●
						20	Liter	●

Product Code: 1.1530.

Technical Information

Density	1.21 - 1.23 g/cm ³ (20 °C)
HS code:	28289000
Storage (temperature):	Store below +15 °C
SDS	available
R phrase	R 31 - 34
S phrase	S 26- 28.1 - 36/ 37/39 - 45
Odour:	characteristic
Form:	liquid
Color:	yellow
pH value:	12 (160 g/l 20 °C)
Solubility in water	(20 °C) soluble
Boiling time:	96-99 °C
Melting point	~16 °C
Vapour pressure:	~25 hPa (20 °C)
Viscosity dynamical:	2.6 mPa*s (20 °C)



Sulfochromic acid (Chromosulfuric acid)

Cleaning solution for glass resseles

Composition H2SO4 / CrO3

Specification

CAUTION - Chromic Acid is a toxic and corrosive solvent and is a known carcinogen(1). Do not allow the solution to come into contact with you or your clothing, for it will cause very bad burns. Protective gloves and safety glasses are required when handling chromic acid. If any is spilled on the floor or desk, neutralize it immediately with commercial-grade sodium bicarbonate (baking soda) then wash completely with water .If it is spilled on the skin, wash in running water immediately. The solution may be repeatedly used until the reddish color of dichromate has been replaced by the green color of the chromic ion (2).In a small beaker, just cover the glass sample containers with chromic acid cleaning solution. Allow to stand at room temperature for 20 min. Decant the cleaning solution from the mechanical parts and return the used chromic acid cleaning solution to its storage bottle. Wash the sample containers at least six times with tap water and finally with distilled water. Dry the sample containers as described above and store in a desiccator for future use

Glass Bottles			Plastic Bottles			Plastic Gallon		
1	Liter	●	1	Liter		5	Liter	
2.5	Liter	●	2.5	Liter		10	Liter	
						20	Liter	

Product Code: 1.2070.

Technical Information

HS code	38249099
Storage	Without limitation
SDS	Available
R phrase:	R 45-46-E23-35-42/43-E48
S phrase:	S 53-26-30-36/37/39-45-61

