



Neutron[®]
Pharmaceutical Co.

LABORATORY REAGENT



Responsible For Quality

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Benzalkonium chloride solution 50%

Product Code: 1.3210.

Laboratory

(RN(CH₃)₂CH₂C₆H₅)Cl

Specification

Assay	47.5 - 52.5	%
Description	Conforms	
Identification	Conforms	
Solubility	Conforms	
Appearance of solution	Conforms	
Acidic or alkaline	Conforms	
Sulfated ash	≤ 0.1	%
Limit of foreign amines	Conforms	

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

Technical Information

Formula	(RN(CH ₃) ₂ CH ₂ C ₆ H ₅)Cl
Chemical formula	(RN(CH ₃) ₂ CH ₂ C ₆ H ₅)Cl
Density	0.99 g/cm ³ (20°C)
CAS number	63449-41-2
HS Code	34021200
EC number	264-151-6
Storage	Store at 15 to 25°C
R phrase	R 21/22-34-50
S phrase	S 36/37/39-45-61
SDS	available
Odour	characteristic
Form	liquid
Color	weakly yellowish
Solubility in water	soluble (20°C)
Solubility in ethanol	soluble
Flash point	≥ 100 °C
Boiling point	~100 °C
Melting point	-5 °C
Thermal decomposition	~150 °C
Viscosity dynamical	100 mPa*s (20°C)



Carboxymethylcellulose sodium (CMC Sodium)

Product Code: 1.2890.

Laboratory

Specification

Assay(sodium)	6.5 - 9.5	%
Description	Conforms	
Identification	Conforms	
Solubility	Conforms	
Appearance of solution	Conforms	
Viscosity 2% (label amount)	80 - 120	%
p H	6.5 - 8.5	
Heavy metals	≤ 0.002	%
Loss on drying	≤ 10.0	%

Glass Bottles		Plastic Container		Plastic Container	
5	gr	100	gr	1	kg
10	gr	500	gr	5	kg
25	gr	800	gr	10	kg

Technical Information

CAS number	9004-32-4
RTECS	FG5950000
Storage	+15°C to +30°C
SDS	available
Form	solid
Color	white



Castor oil

Laboratory

Specification

Description		Conforms	
Identification		Conforms	
Specific gravity		Conforms	
Distinction from most other fixed oils		Conforms	
Heavy metals	≤	0.001	%
Free fatty acids	≤	3.5	ml
Hydroxyl value		160 - 168	
Iodine value		83 - 88	
Saponification value		176 - 182	

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

Product Code: 1.2650.

Technical Information

Density	~ 0.961 g/cm ³ (25°C)
CAS number	8001-79-4
Storage	Store at 5 to 25 °C
SDS	available
Boiling point	313 °C
Flash point	>113 °C

Formic acid

Laboratory

CH₂O₂

M= 46.03 g/mol

1lit= 1.22 g/cm³

Specification

Assay		83.0 – 88.0	%
Colour & Description		Conforms	
Identification		Conforms	
Specific gravity	~	1.22	g/cm ³
Dilution test		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: 1.1920.

Technical Information

Formula	CH ₂ O ₂
Density	1.2 g/cm ³
Molar mass	46.03 g/mol
HS code	29151100
Storage (temperature)	Without limitation
SDS	Available
R phrase	R 35
S phrase	S 23.2-26-36/37/39-45





Isopropyl myristate (Tetradecanoic acid)

Laboratory

C17H34O2
M=270.46 g/mol

Specification

Assay	≥	90.0	%
Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Specific gravity		0.846 - 0.854	
Acid value		1.0	
Iodine value		1.0	
Saponification value		202 - 212	
Refractive index		1.432 - 1.436	
Residue on ignition	≤	0.1	%

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

Product Code: 1.3230.

Technical Information

Formula	C17H34O2
Chemical formula	C17H34O2
Density	0.85 g/cm ³ (20°C)
Molar mass	270.46 g/mol
CAS number	110-27-0
HS Code	29159080
EC number	203-751-4
Storage	Store at 15 to 25 °C
SDS	available
Odour	almost odourless
Form	liquid
Color	colourless
Ignition temprature	≥ 300 °C
Solubility in water	0.05 g/l (20°C)
Solubility in ethanol	soluble
Flash point	≥ 150 °C
Boiling point	140 °C (3 hPa)
Melting point	0 - 1 °C
Vapour pressure	≤ 1 hPa
Thermal decomposition	208 °C
Viscosity dynamical	5.58 mPa*s (20°C)



Lanolin alcohol 200 (Eucerin 200)

Laboratory

Specification

Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Melting range	≤	56	°C
Acid value	≤	2.0	
Water absorption capacity	~	200	%
Saponification value	≤	12.0	
Residual on ignition	≤	0.15	%
Heavy metals	≤	0.001	%
Loss on drying	≤	0.5	%

Glass Bottles			Plastic Container			Plastic Container		
5	gr		100	gr		1	kg	●
10	gr		500	gr		5	kg	●
25	gr		800	gr		10	kg	

Product Code: 1.2900.

Technical Information

CAS number	8027-33-6
HS Code	34021300
Storage	Store at 15 to 25 °C
SDS	available
Odour	odourless
Form	Crystalline wax
Color	yellow

Lanolin alcohol 400 (Eucerin 400)

Laboratory

Specification

Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Melting range	≤	56.0	°C
Acid value	≤	2.0	
Water absorption capacity	~	400	%
Saponification value	≤	12.0	
Residual on ignition	≤	0.15	%
Heavy metals	≤	0.001	%
Loss on drying	≤	0.5	%

Glass Bottles			Plastic Container			Plastic Container		
5	gr		100	gr		1	kg	●
10	gr		500	gr		5	kg	●
25	gr		800	gr		10	kg	

Product Code: 1.2910.

Technical Information

CAS number	8027-33-6
HS Code	34021300
Storage	Store at 15 to 25 °C
SDS	available
Odour	odourless
Form	Crystalline wax
Color	yellow

n - Hexane

Laboratory Extraction Reagent

C6H14

1lit= 0.66 g/cm³

Specification

Assay (as C6H14)	≥	85.0	%
Color & Description		Conforms	
Identification		Conforms	
Specific gravity		0.659 – 0.662	g/cm ³
Acidity	≤	0.002	%
Readily carbonizable substances		Conforms	
Water	≤	0.02	%

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

Product Code: 1.1290.

Technical Information

Formula (Hill):	C6H14
Chemical formula:	CH3(CH2)4CH3
Density:	0.66 g/cm ³ (20 °C)
Molar mass:	86.18 g/mol
CAS number:	110-54-3
EC index number:	601-037-00-0
HS code:	29011000
EC number:	203-777-6
Storage (temperature):	without limitation
SDS	available
RTECS:	MN9275000
R phrase:	R 11-38-48/20-51/53
S phrase:	S 9-16-29-33-36/37
Odour:	benzene-like
Form:	liquid
Color:	colourless
Explosion limit:	1.0-8.1Vol%
Ignition temperature:	240 °C(DIN 51794)
Solubility in water:	0.0095 g/l (20 °C)
Solubility in ethanol:	(20°C) soluble
Solubility in chloroform:	(20°C) soluble
Flash point:	-22°C (c.c)
Boiling point:	69°C (1013 hpa)
Melting point:	-94.3°C
Vapour pressure:	160 hpa(20 °C)
Viscosity dynamical:	0.326 mpa*s (20 °C)
Viscosity kinematic:	0.50 mm ² /s (20 °C)
Saturation concentration (air):	563 g/m ³ (20 °C)





Nitric acid 60%

for Laboratory and polishing

HNO₃

M= 63.01 g/mol

1lit= 1.34 g/cm³

Specification

Assay	≥	60.0	%
Description		Conforms	
Identification		Conforms	
Chloride	≤	0.0005	%
Sulfate	≤	0.001	%
Heavy metals	≤	0.0002	%
Iron	≤	0.0002	%
Residue on ignition	≤	0.005	%

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

Product Code: 1.1310.

Technical Information

Density:	~ 1.34 g/m ³ (20 °C)
HS code:	28080000
Storage (temperature):	store at +2°C to +25°C
SDS:	available
R phrase:	R35
S phrase:	S 23.2-26-36/37/39-45
Odour:	pungent
Form:	liquid
Color:	colourless
Solubility in water:	(20 °C) soluble
Boiling point:	121 °C
Melting point:	~ -32°C
Vapour pressure:	~ 9.4 hpa(20 °C)



N,N -Dimethylformamide (DMF)

Laboratory

HCON(CH₃)₂

M=73.10 g/mol

Specification

Assay	≥	99.0	%
Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Density		0.948 - 0.949	g/cm ³
Acidity	≤	0.0005	meq/g
Alkalinity	≤	0.0002	meq/g
Heavy metals	≤	0.0002	%
Evaporation residue	≤	0.001	%
Water	≤	0.1	%

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

Product Code: 1.3200.

Technical Information

Formula	C ₃ H ₇ NO
Chemical formula	HCON(CH ₃) ₂
Density	0.94 g/cm ³ (20°C)
Molar mass	73.10 g/mol
CAS number	68-12-2
HS Code	29241900
EC number	200-679-5
Storage	Store at 15 to 25 °C
RTECS	LQ2100000
R phrase	R 61-E20/21-36
S phrase	S 53-45
SDS	available
Odour	weakly amine like
Form	liquid
Color	colourless
Explosion temperature	2.2 to 16 vol %
Ignition temperature	410 °C
p H value	7 (200g/l 20°C)
Solubility in water	soluble (20°C)
Solubility in ethanol	soluble
Solubility in chloroform	soluble
Flash point	58 °C
Boiling point	153 °C
Melting point	-61 °C
Vapour pressure	3.77 hPa
Thermal decomposition	>350 °C
Viscosity dynamical	0.82 mPa*s (20°C)
Saturation concentration	12 g/m ³ (20°C)



Petroleum ether 40 - 65 °C

(Petroleum Benzene, Petroleum Spirit)

Laboratory

Mixture of Hydrocarbons

Solvent for Extraction

Specification

Description		Conforms	
Specific gravity		0.640 – 0.670	g/cm ³
Free Acid	≤	0.0005	%
Discolored matter		Conforms	
Boiling Rang	≥	95.0	%
Evaporation Residual	≤	0.001	mg/l
Water	≤	0.01	%

Glass Bottles		
1	Liter	●
2.5	Liter	●

Plastic Container		
1	Liter	
2.5	Liter	

Plastic Container		
5	Liter	
10	Liter	
20	Liter	

Product Code: 1.1990.

Technical Information

Density	0.65 g/cm ³
CAS number	64742-49-0
HS code	27101125
EC number	265-151-9
Storage (temperature)	+15 OC to +25 °C
SDS	Available
R phrase	R 11-51/53-65-66-67
S phrase	S 9-16-23-2-24-33-61-62



Silica gel with moisture indicator

Laboratory decicant Reagent

Specification

Bulk density	~	75	g/100ml
Loss on drying(180 C)	≤	2.0	%
Water absorption capacity (24 hrs.,80% relative humidity)	≤	20	%

Glass Bottles		
5	gr	
10	gr	
25	gr	

Plastic Container		
100	gr	
500	gr	
800	gr	

Plastic Container		
1	kg	●
5	kg	●
10	kg	

Product Code: 1.2190.

Technical Information

HS code	38249099
Storage	Without limitation
SDS	Available
R phrase:	R 49
S phrase:	S 53-45





Stearic acid (Octadecanoic acid)

Laboratory, Extra Pure

C18H36O2

M=284.48 g/mol

Specification

Assay	≥	90	%
Description		Conforms	
Identification		Conforms	
Solubility		Conforms	
Congealing temperature	≥	54	°C
Iodine value	≤	4.0	
Residue on ignition	≤	0.1	%
Heavy metals	≤	0.001	%
Mineral acid		Conforms	
Neutral paraffin		Conforms	

Glass Bottles			Plastic Container			Plastic Container		
5	gr		100	gr		1	kg	●
10	gr		500	gr	●	5	kg	
25	gr		800	gr		10	kg	

Product Code: 1.3220..

Technical Information

Formula	C18H36O2
Chemical formula	C18H36O2
Density	0.94 g/cm ³ (20°C)
Molar mass	284.48 g/mol
CAS number	57-11-4
HS Code	29157025
EC number	200-313-4
Storage	Store at 15 to 25 °C
SDS	available
RTECS	WI2800000
Odour	rancid
Form	solid
Color	white
Ignition temperature	395 °C
Solubility in water	insoluble (20°C)
Solubility in ethanol	~50 g/l (20°C)
Solubility in chloroform	500 g/l
Flash point	≥196 °C
Boiling point	383 °C (3 hPa)
Melting point	68 - 70 °C



5-Sulfosalicylic acid dihydrate

Laboratory

C7H6O6S*2H2O

M= 254.22 g/mol

Specification

Assay	≥	99.0	%
Description		Conforms	
Solubility		Conforms	
Identification		Conforms	
Salicylic acid		Conforms	
Water	≤	15.0	%
Heavy metals	≤	0.001	%
Melting Point		105 - 109	°C

Glass Bottles			Plastic Container			Plastic Container		
5	gr		100	gr	●	1	kg	●
10	gr		500	gr	●	5	kg	
25	gr		800	gr		10	kg	

Product Code: 1.1550.

Technical Information

Formula (Hill)	C7H6O6S*2H2O
Density:	0.8g/cm ³ (20 °C)
Molar mass:	254.22g/mol
Bulk density:	~310 kg/m ³
CAS Number	6965-83-3
HS Code	29182910
EC Number:	202-555-6
Storage (temperature):	Store at +15 Oc to +25 °C
SDS	available
R phrase:	R 36/38
S phrase	S 26
Odour:	Slightly pungent
Form:	Crystals
Color:	White to grey
pH value:	<0.5 (200 g/l 20 °C)
Solubility in water:	(20 °C) freely soluble
Solubility in ethanol:	(20 °C) freely soluble
Flash point	~150 °C
Melting point:	105-109 Oc (for the dihydrate)
Thermal decomposition:	~200 °C



Sulfuric acid 98%

Laboratory for nitrogen determination

H₂SO₄

M= 98.08 g/mol

1lit= 1.84 g/cm³

Specification

Assay	≥	98.0	%
Description		Conforms	
Solubility		Conforms	
Identification		Conforms	
Specific gravity	~	1.84	g/cm ³
Chloride	≤	0.005	%
Heavy metals	≤	5.0	ppm
Residue on ignition	≤	0.005	%
Limit of nitrate		Conforms	
Reducing Substances		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: 1.1590.

Technical Information

Formula:	H ₂ O ₄ S
Chemical formula:	H ₂ SO ₄
Density:	1.84 g/cm ³ (20 °C)
Molar mass:	98.08 g/mol
CAS number:	7664-93-9
EC index number:	016-020-00-8
HS code:	28070010
EC number:	231-639-5
Storage (temperature):	Without limitations.
SDS	available
RTECS:	WS5600000
R phrase:	R 35
S phrase:	S 26-30-45
Odour:	odourless
Form:	liquid
Color:	colourless
PH value:	0.3 (49 g/l 25 °C)
Solubility in water:	(20 °C) soluble,
Solubility in ethanol:	soluble,
Boiling point:	~ 335 °C
Melting point:	~ 3 °C
Vapour pressure:	~ 0.0001 hpa (20°C)
Thermal decomposition:	~ 338°C
Viscosity dynamical:	~ 24 mPa*s (20 °C)



Water Distillated & Demineralized

Laboratory

H₂O

M=18.0 g/mol

1lit= 1.00g/cm³

Specification

Description		Conforms	
Appearance		Conforms	
Ammonia		Conforms	
Chloride		Conforms	
Calcium		Conforms	
Sulfate		Conforms	
Oxidizable substances		Conforms	
Magnesium		Conforms	
Nitrate		Conforms	
Evaporation residue	≤	5.0	mg/l
Spec Conductance @25°C (at the time of manufacturing)	≤	0.005	mS/cm
pH@25°C		5.0 – 7.0	

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

Product Code: 1.2130.

Technical Information

Formula (Hill):	H ₂ O
Density:	1.00g/cm ³ (20 °C)
Molar mass:	18.02 g/mol
CAS number:	7732-18-5
HS code:	28510010
EC number:	231-791-2
Storage (temperature):	Store at +5 to +30 °C
SDS	Available
RTECS:	ZC0110000
Odour:	Odourless
Form:	Liquid
Color:	Colourless
Boiling point:	100 °C
Melting point:	0 °C
Vapour pressure:	23hpa (20°C)
Viscosity dynamical:	0.952 mPa*s (20 °C)