



## ■ About Neutron Pharmachemical Company

Neutron Pharmachemical Company is one of the biggest manufacturers for chemical Material and laboratory products in Iran.

Our team has over 16 years. Experience in Chemical, Pharmaceutical, Hygiene and cosmetics, Laboratory, Medical Laboratory, Water and wastewater industries, Present wide range of Solvents, acids, bases, Indicator reagent and Standard solution with the Best Quality In the Iranian Market.

## ■ درباره شرکت شیمی دارویی نوترون

شرکت شیمی دارویی نوترون یکی از بزرگترین تولیدکنندگان مواد شیمیایی آزمایشگاهی در ایران می باشد. تیم ما بیش از شانزده سال تجربه در صنایع شیمیایی، دارویی، آرایشی، بهداشتی، آزمایشگاهی و آزمایشگاه های پزشکی و آب و فاضلاب، رنج متنوعی از حلالها، اسیدها، بازها، معرفها و محلول های استاندارد را با بالاترین کیفیت تهیه کرده و به بازار ایران عرضه می دارد.



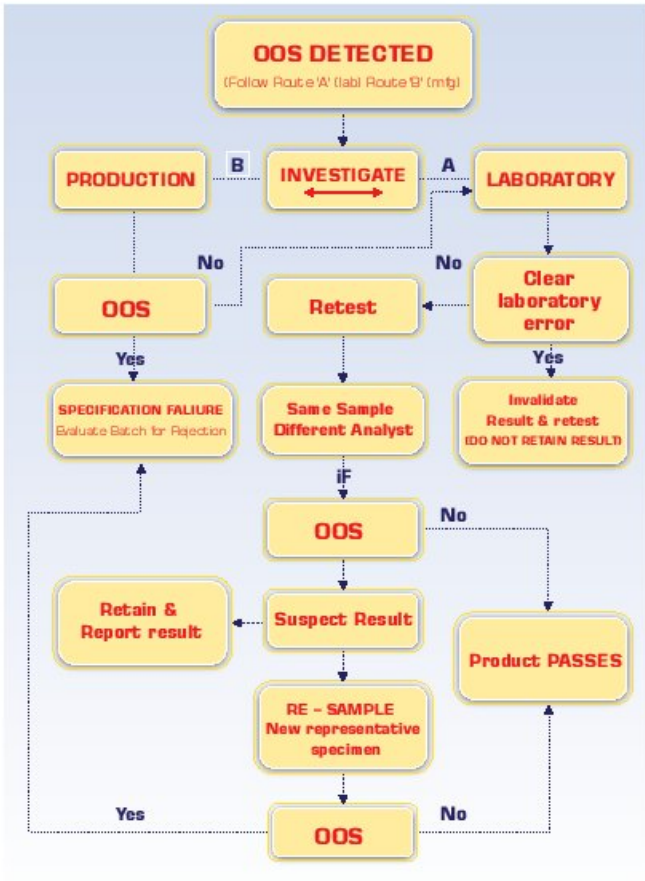
## ■ دیدگاه و خط مش کیفی

واحد تضمین کیفیت شرکت شیمی دارویی نوترون با پایه گذاری سیستم مدیریت کیفیت و ایجاد ساختار مستندات کیفی، قصد دارد با پاسخ گویی مناسب ، در راستای نیازهای مشتری، رضایت مشتریان را جلب و سهم فروش خود را در بازارهای داخلی و خارجی افزایش دهد



## ■ Vision and Quality Policy

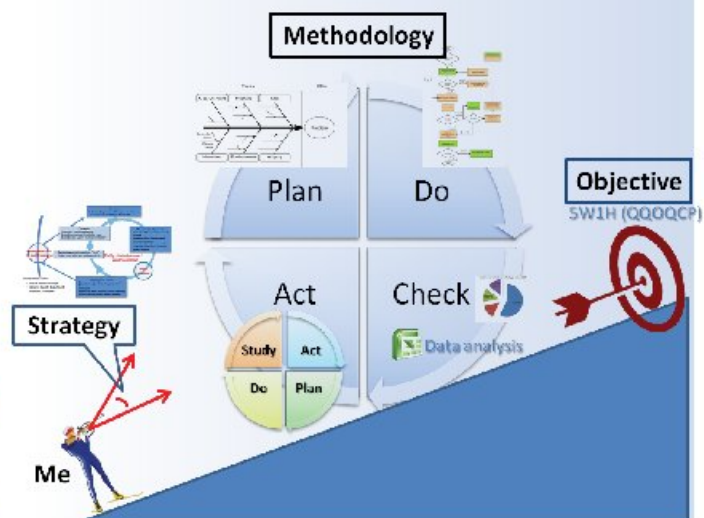
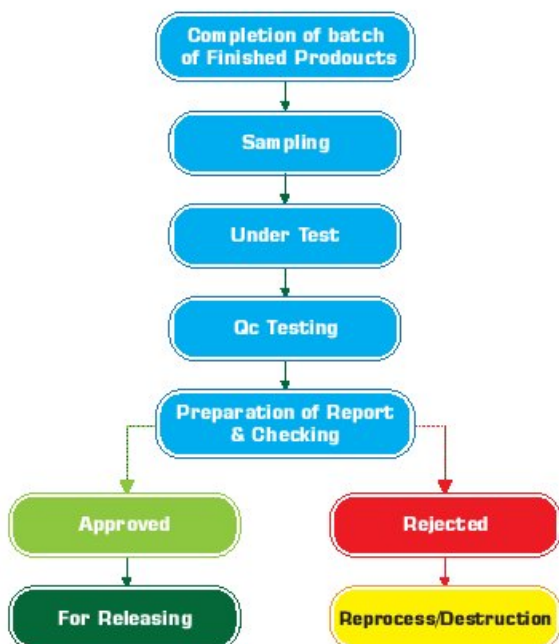
Our Quality Assurance Department in Neutron Pharmachemical company, has founded a quality management system. They have Structured a Quality documentation to gain customer Satisfaction and Increase Our share in the Domestic and international Market by Finding the Proper Response with in the lines of customer requirements.



آزمایشگاه کنترل کیفیت شرکت شیمی نوترون با پشتیبانی پرسنل آموزش دیده و شایسته با برخورداری از مدرن ترین دستگاههای آنالیز و همچنین بکارگیری آخرین دستاوردهای و استانداردهای بین المللی، همچون بکارگیری ASTM, WHO, ISO, EPA, FDA, JP, USP, BP ، مواد اولیه ، محصول نهایی و فرایندهای تولیدی خود را مطابق الزامات GLP ، ISO 17025 مورد ارزیابی کیفی قرار می دهد.

## Quality Control in Neutron Pharmachemical Company

Our Quality Control Laboratory has the support of Qualified and Educated Personnel with the Possession of the Modern Analytical Instruments. the latest International Standards WHO, ASTM, BP, USP, JP, FDA, EPA, ISO, are Used to, Asses the Quality of Raw Material, Finished Products and Manufacture Process which are applied in accordance with GLP Rules and ISO 17025.





## Neutron Pharmaceutical Co.

### CERTIFICATE OF ANALYSIS

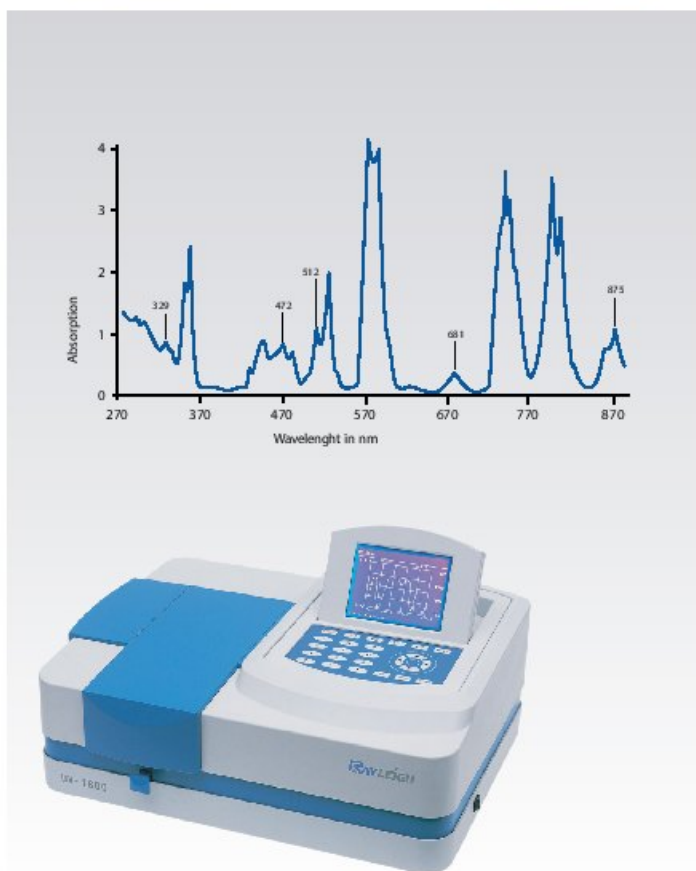
Physicochemical Quality Control Laboratory

Product Name	Methanol for HPLC	Product Code	1.1240.
Batch No.	128	Sub Batch No.	3952016I15
Quantity	600 Lit	QC No	FP128
Mfg. Date	2016.09.15	Date of release	2016.09.16
Minimum shelf life	2019.09.15	Grade	Chromatography

Tests	Specifications	Results	Unit
Color & Description	Clear ,colorless liquid ,having a characteristic odor.	Conforms	
Solubility	Miscible with water ,with alcohol, with ether , with benzene , & with most other organic solvents.	Conforms	
Identification	According to reference standard spectrum. The retention time of the major peak in chromatogram of the assay preparation corresponds to that in the chromatogram of the standard preparation as obtained in the assay.	Conforms	
Acidity	N.M.T 0.45	Conforms	ml
Acetone & Aldehyde	N.M.T 0.003	Conforms	%
Alkalinity	N.M.T 3.0	Conforms	ppm
Water	N.M.T 0.03	Conforms	%
Residue on evaporation	N.M.T 3.0	Conforms	mg
Transmission at 220 nm	N.L.T 55.0	Conforms	%
Transmission at 235 nm	N.L.T 83.0	Conforms	%
Transmission from 265 nm	N.L.T 98.0	Conforms	%
Absorbance at 225 nm	NMT 0.17	Conforms	mAU
Absorbance at 235 nm	NMT 2.0	Conforms	mAU
Absorbance at 254 nm	NMT 1.0	Conforms	mAU
Filtrated by 0.22µm filter			
Assay	N.L.T 99.9 % of CH3OH	99.92	%

**QA Manager**

This document has been produced electronically and is valid without a signature.



## ■ آزمایشگاه تحقیقات و معتبرسازی

آزمایشگاه تحقیقات و معتبرسازی شرکت شیمی دارویی نوترون با کادر علمی مجرب و با بهره گیری از تجارب چندین ساله در صنایع شیمیایی، آزمایشگاهی، دارویی، آرایشی و بهداشتی، آمادگی و توانمندی خود را جهت ارائه خدمات به اشخاص حقیقی، حقوقی و ارگانهای مختلف در قالب ارائه تفاهم نامه فی ما بین، در زمینه های زیر را دارا می باشد

آنالیز مواد شیمیایی

فرمولاسیون مواد شیمیایی و دارویی

ارائه روشهای آنالیز

مشاوره و آموزش معتبرسازی روش های آنالیز

مشاوره و آموزش کیفیت سنجی دستگاههای آنالیز مانند

HPLC, GC, UV-MS, TOC, KF, Titrotor, Dissolution, ...

## ■ Resarch and Validotion Laboratory

Neutron Pharmacchemical Company Research and Validation Laboratory has highly Skilled Personnel who a than the advantage of several years of involvement in Chemical, Pharmaceutical, Hygiene, cosmetics, Laboratory industries and Serving Individuals, Legal Entities and various Organizations in terms of MoJ in following Fields:

- Chemical Material Analysis
- Formulation of Chemical and Pharmaceutical Material
- Presenting Analyzing Methods
- Analytical Method Validation Training.
- Analytical Instrument Qualification Training Such as, HPLC, GC, UV-VIS, TOC, KF, Titrotor, Dissolution, etc.

## ■ واحد برنامه ریزی، انبارداری و فروش شرکت شیمی دارویی نوترون

با رعایت الزامات انبارداری (GSP) و برقراری ارتباط موثر و کارآمد با مشتریان خود سعی میکند با ارائه اطلاعات علمی، خدمات مناسبی را در مدت زمان تمهید داده شده به مشتری ارائه دهد و نیاز مشتریان خود را بر آورده سازد

**Our Planning, Storage and Sales Department** in Compliance with GSP Rules, Communicate effectively with Customers by Presenting Scientific Data and Appropriate Service in the Allocated Period given to Meet the Customers Satisfaction.





## Grades of Chemicals

- Ultra Pure For Chromatography - for Chromatography and spectroscopy application.
- Laboratory - A grade suitable for general use.
- USP - Chemical that meet the requirements of the US Pharmacopoeia.
- BP - Chemical that meet the requirements of the BP Pharmacopoeia.
- Extra Pure - A grade suitable for general use.
- Cleaning & Disinfect Solution - A grade suitable for Cleaning & Disinfect use.
- Histology, Biochemical and clinical - A grade suitable for medical laboratory Use.
- ASTM - Chemical that meet the requirements of the ASTM Standard.
- Indicator - A grade suitable for Indicate of colour change.
- Dental photographic - A grade suitable for Dental radiography.

Product code **1.1240.**

### Technical Information:

Formula:	CH <sub>4</sub> O
Chemical formula:	CH <sub>3</sub> OH
Density:	0.79 g/cm <sup>3</sup> (20 °C)
Molar mass:	32.04 g/mol
CAS number:	67-58-1
EC Index number:	609-091-00-X
HS code:	29091100
EC number:	200-888-5
Storage (temperature):	Without limitation available
SDS:	PC1499999
RTECS:	PC1499999
R phrase:	R 11-202H26-082S2429
S phrase:	S 7-10-2007-45
Odour:	characteristic
Form:	liquid
Color:	colorless
Explosion limit:	5.5-94.5 Vol %
Ignition temperature:	499 °C (DN 61799)
Stability in water:	(20°C) stable
Flash point:	11 °C (p.c.)
Boiling point:	64.5 °C (1013 hPa)
Melting point:	-98 °C
Vapour pressure:	120 hPa (20 °C)
Viscosity dynamical:	0.587 mPa.s (20 °C)
Saturation concentration (g/l):	188 g/l (20 °C)

## Methanol for gradient HPLC

Ultra Pure for Liquid chromatography

CH<sub>3</sub>OH  
M= 32.04 g/mol  
1lit= 0.79 g/cm<sup>3</sup>

### Specification:

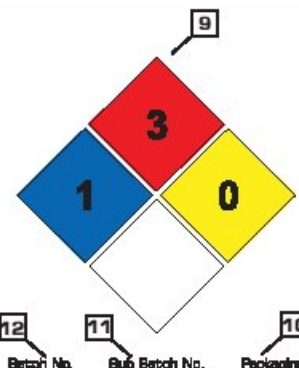
Assay	≥	99.9	%
Solubility		Confirms	
Color & Description		Confirms	
Identification		Confirms	
Alkalinity	≤	3.0	ppm
Acidity	≤	0.46	ml
Acetone & aldehyde		Confirms	
Residue on evaporation	≤	3.0	mg/l
Transmission at 225nm	≥	80	%
Transmission at 240nm	≥	80	%
Transmission from 250nm	≥	99	%
Absorbance at 225nm	≤	2.0	MAU
Absorbance at 254nm	≤	1.0	MAU
Boiling Point		64.0-66.0	°C
Filtered by 0.2 µm suitable filter			
Water	≤	0.05	%



**Neutron**  
Pharmachemical Co.

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info@neutronpharmachemical.com  
Responsible For Quality  
Tel: +98 21 66906733

Made In IRAN For Export



12 Batch No. 11 Sub Batch No. 10 Packaging

016 0042016D06 2.5 Lit  
Minimum shelf life 2019 04



Version NO. 00

1 نام محصول  
Product Name

5 فرمول شیمیایی  
Chemical Formula

9 لوزی خطرات  
Hazard Diamond

2 کد محصول  
Product code

6 جرم مولکولی  
Molecular Mass

10 نوع بسته بندی  
Packaging

3 اطلاعات تکنیکی  
Technical Information

7 مشخصات  
Specification

11 سری ساخت  
Sub Batch No.

4 گرید محصول  
Product grade

8 علامت خطر  
Hazard Symbols

12 سری ساخت بالک  
Batch No.



## Packaging

1 and 2.5 Liter glass bottles for liquid chemicals. 250 ml, 500 ml, 1000 ml, 2.5, 5, 10 and 20 liter plastic containers for liquid chemicals. 5, 25, 50, 100, 800, 1000, 5000 and 10000 gram plastic containers for solid chemicals. Furthermore we can also package our products according to customer's request.

## Neutron Pharmachemical Co.

### Material Safety Data Sheet

#### Section 1: Chemical Product and Company Identification

Product Name: **Methyl alcohol**  
 Catalog Codes: SLM3064, SLM3952  
 CAS#: 67-56-1  
 RTECS: PC1400000  
 TSCA: TSCA B(b) inventory: Methyl alcohol  
 CI#: Not applicable  
 Synonym: Wood alcohol, Methanol; Methylol; Wood Spirit; Carbinal  
 Chemical Name: Methanol  
 Chemical Formula: CH<sub>3</sub>OH

#### Contact Information:

Address: #98, 9th Floor, Borjsaz Building, Azadi Ave., Tehran, Iran  
 www.neutronpharmachemical.com  
 info@neutronpharmachemical.com  
 Tel: +9821-66906733  
 Fax: +9821-66439195  
 CHEMTREC (24-HR Emergency Telephone), call: 123

#### Section 2: Composition and Information on Ingredients

##### Composition:

Name	CAS #	% by Weight
Methyl alcohol	67-56-1	100

Toxicological Data on Ingredients: Methyl alcohol: ORAL (LD50): Acute: 5628 mg/kg [Rat], DERMAL (LD50): Acute: 15800 mg/kg [Rabbit], VAPOR (LC50): Acute: 64000 ppm 4 hours [Rat].

#### Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.  
 Potential Chronic Health Effects: Slightly hazardous in case of skin contact (sensitizer).  
 CARCINOGENIC EFFECTS: Not available  
 MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.  
 TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to eyes. The substance may be toxic to blood, kidneys, liver, brain, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), optic nerve. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

### HAZARDOUS MATERIALS CLASSIFICATION GUIDE



<b>Health Hazard</b>  Carcinogen Reproductive Toxicity Respiratory Sensitizer Target Organ Toxicity Aspiration Toxicity	<b>Flame</b>  Flammables Pyrophorics Self-Heating Emits Flammable Gas Self-Reactives Organic Peroxides	<b>Exclamation Mark</b>  Irritant (skin and eye) Skin Sensitizer Acute Toxicity (Harmful) Narcotic Effects Respiratory Tract Irritant Hazardous to Ozone Layer (Non-Mandatory)
<b>Gas Cylinder</b>  Gases Under Pressure	<b>Corrosive</b>  Skin Corrosion/Burns Eye Damage Corrosive to Metals	<b>Exploding Bomb</b>  Explosives Self-Reactives Organic Peroxides
<b>Flame Over Circle</b>  Oxidizers	<b>Environment (Non-Mandatory)</b>  Aquatic Toxicity	<b>Skull and Crossbones</b>  Acute Toxicity (Fatal or Toxic)