

SAFETY DATA SHEET (SDS)

in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II — Regulation (EU) 2020/878

Date: 02.09.2026 | Version: 1 | EN

dimethyl sulfoxide

methylsulfinylmethane

CAS 67-68-5

 C_2H_6OS

EC 200-664-3

MOLAR MASS
78.14LOGP
-1.35
(pomiar:
Yaws
Handbook
2nd ed.
(2014))

HAZARD CLASSIFICATION (GHS / CLP)



Warning

H315 H319 H335

Non-harmonised classification (no entry in Annex VI to CLP) — assigned from aggregated ECHA C&L notifications; the H-statements require verification against the official source (ECHA C&L / manufacturer's data sheet).

1. Identification of the substance/mixture and of the company/undertaking

1.1 Substance name	dimethyl sulfoxide
1.1 IUPAC name	methylsulfinylmethane
1.1 CAS number	67-68-5
1.1 EC number	200-664-3
1.1 PubChem CID	679
1.1 InChIKey	IAZDPXIOMUYVGZ-UHFFFAOYSA-N
1.1 SMILES	CS(=O)C
1.1 Molecular formula	C_2H_6OS ^[7]
1.1 Molar mass	78.14 g/mol ^[7]
1.1 Exact mass	78.0139 Da ^[7]

1.2 Uses

For laboratory and research purposes. Not for use in the production of food, medicines or cosmetics without appropriate authorisation.

1.3 Details of the supplier

REFERENCE COPY — NO
SUPPLIER DETAILS — NOT FOR
DISTRIBUTION

Supplier details are not included in this reference copy. The supplier placing the substance on the market must complete this section and remains responsible for the sheet under REACH. MolGod.org prepares documentation and is not the supplier of this substance.

1.4 Emergency telephone number

Emergency telephone

112 (EU-wide emergency number)

The number above is the Polish poison centre (CIT, Lodz, 24/7). It is NOT the poison centre designated for your country. Under Article 45 of Regulation (EC) No 1272/2008 the competent body is the centre designated in the country of placing on the market — consult it before use.

2. Hazards identification

GHS:



PPE:



Warning

Hazard statements (H) ^{[3][4]}

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

Precautionary statements (P) ^{[3][4]}

P261

Avoid breathing dust/fume/gas/mist/vapours/spray

P264

Wash thoroughly after handling

P271

Use only outdoors or in a well-ventilated area

P280

Wear protective gloves/protective clothing/eye protection/face protection

P302+P352

IF ON SKIN: Wash with plenty of water

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing

P312

Call a POISON CENTER or doctor/physician if you feel unwell

P321

Specific treatment

P332+P313

If skin irritation occurs: Get medical advice/attention

P337+P313

If eye irritation persists: Get medical advice/attention

P362

Take off contaminated clothing

P403+P233

Store in a well-ventilated place: Keep container tightly closed

P405

Store locked up

P501

Dispose of contents/container to an approved waste collection point

Non-harmonised classification (no entry in Annex VI to CLP) — assigned from aggregated ECHA C&L notifications; the H-statements require verification against the official source (ECHA C&L / manufacturer's data sheet).

3. Composition/information on ingredients

Substance type	pure substance
CAS Number	67-68-5
EC number	200-664-3
Molecular formula	C ₂ H ₆ OS
Concentration	≥99% (typical reagent-grade purity — to be confirmed by the supplier's specification)

4. First aid measures



Inhalation

Move the affected person to fresh air. Keep at rest. If not breathing: artificial respiration (qualified personnel only). ^{[1][2][14]}

Skin contact

Remove contaminated clothing. Rinse skin with soap and water (min. 15 minutes). ^{[1][2][14]}

Eye contact

Rinse eyes with running water (min. 15 minutes). Remove contact lenses if possible. If irritation persists — consult an ophthalmologist. ^{[1][2][14]}

Ingestion

Do NOT induce vomiting (unless directed by a physician). Rinse mouth with water. Never give anything by mouth to an unconscious person. Poison Centre Łódź: +48 42 631 47 24 (24/7). Emergency number: 112. ^{[1][2][14]}

Symptoms and effects

cough, shortness of breath, headache, dizziness; skin redness and irritation; eye irritation and watering. ^[3]

Notes for physician

Requires verification

Emergency numbers: CIT Łódź: +48 42 631 47 24 (24/7) | Emergency: 112

5. Firefighting measures

Suitable extinguishing media	Adapt extinguishing media to surroundings. CO ₂ , dry powder, foam.
Unsuitable extinguishing media	No specific restrictions.
Specific hazards	Thermal decomposition products:CO, CO ₂ , SO _x . [15]
Advice for firefighters	Use self-contained breathing apparatus (SCBA). Full protective suit.
Flash Point	91.3243°C [7]
Flash point note	naczynia zamknięte (CC) [PL]
Auto-ignition temperature	215°C [7]

6. Accidental release measures

Personal precautions	Use personal protective equipment (see Section 8). Avoid breathing vapours. [1][2][14]
Environmental precautions	Prevent entry into sewers, groundwater and surface water. [1][2][14]
Methods for containment and cleaning up	1. Wietrzyć pomieszczenie (otwórz okna + wyciąg) 2. Załóż rękawice nitrile (>0.4mm) + okulary ochronne 3. Posyp absorbent (vermikulit/piasek) wokół rozlania 4. Zbierz od krawędzi do środka (nie rozprzodaj!) 5. Umieść zanieczyszczony absorbent w szczelnym pojemniku PP/HDPE 6. Przemyj miejsce wodą z detergentem (3x) 7. Wytrzyj do sucha (ścierki → do pojemnika odpadów) 8. Umyj ręce nawet przez rękawice (DMSO penetruje!) [PL]
Related sections	8; 13
Large spill	1. EWAKUJ personel niezaangażowany w oczyszczanie (>5m) 2. Wietrzyć intensywnie (>30 min) 3. Załóż pełne PPE: rękawice nitrile + kombinezon chemoodporny + gogle + respirator P2 (jeśli pary) 4. Otamuj rozlanie (użyj absorpcyjnych barier/poduszek) 5. Nie dopuść do kanalizacji/głębi (użyj zapór) 6. Zbierz mechanicznie (pompą próżniową do beczki UN) 7. Posyp pozostałości absorbent (vermikulit 50L/m ²) 8. Zbierz łopatą/miotłą do kontenera 200L UN 9. Przemyj teren wodą (do odzysku!) 3x 10. Zgłoś incydent kierownikowi BHP + wpisz do rejestru [PL]
Absorbent	vermiculite
HAZMAT response required	Yes
Required PPE	Gloves: nitrile (>0.4mm); Safety goggles: Yes; Respiratory protection: not required unless vapors; Protective clothing: lab coat; Protective footwear: closed toe shoes

7. Handling and storage

Precautions	Work in a fume hood or with adequate ventilation. No eating, drinking or smoking in the work area. [1][2][14]
Storage temperature	Store at temperature:20-25°C (temperatura pokojowa). [1][2][14]
Humidity	Store in a dry place (<60% RH). [1][2][14]
Light	Protect from direct sunlight. [1][2][14]
Poniżej 18.5°C substancja zestala się. Nie podgrzewać powyżej 40°C. Sprawdzić stan skupienia przed użyciem.	
Incompatible materials	Strong oxidizers. [15]

8. Exposure controls/personal protection

8.1 Control parameters

OEL — NDS (Poland)	No NDS (OEL) value in the available working list — verify in the current MRPiPS regulation before use; do not assume the absence of a limit value.
OEL (EU)	The EU OEL value has not been verified against the available dataset — check the IOELV/BOELV directives; do not assume the absence of a value.
GESTIS MAK (DE)	GESTIS MAK (DE): 500 ppm / 2000 mg/m ³ — GESTIS/DGUV Deutschland MAK-Wert
DNEL	No data available.
PNEC	No data available.

WARNING — SKIN PENETRATION: SPECJALNE ZAGROŻENIE: DMSO łatwo przenika przez skórę i PRZENOSI inne substancje chemiczne! Stosowanie DMSO w obecności innych chemikaliów = ryzyko systemowego wchłonięcia. Rękawice lateksowe NIE chronią — używać rękawic butylowych (EN ISO 374-1 typ B/C).

8.2 Personal protective equipment (PPE) ^{[5][6][16]}

 Chemical-resistant protective gloves EN ISO 374-1:2016+A1:2018 nitrile (>0.4mm)	 Closed safety spectacles or goggles EN ISO 16321-1:2022 / EN 166:2001	 Respiratory protection EN 14387:2004+A1:2008 type A2 filter (organic vapours)	 Closed safety footwear with toe protection EN ISO 20345:2022 (S2/S3)
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9. Physical and chemical properties

UWAGA: Substancja może zestalać się w temperaturze poniżej 18.5°C.

Property (item 9.1)	Value	Source
Physical state	ciecz (bezbarwna, oleista)	
Colour	bezbarwna	
Odour	lekko czosnkowy, słaby [PL]	
pH (1% aqueous solution)	No data available.	
Melting point	18.5°C (UWAGA: substancja zestala się poniżej 18.5°C (w lodówce lub w zimie)) [PL] ^{[8] [7]}	
Boiling point	159.6875°C ^{[8] [7]}	
Flash point	naczynia zamknięte (CC) [PL] ^[7]	
Flammability	No data available.	
Lower and upper explosion limit	No data available.	
Density (20°C)	1.1005 g/cm ³ ^{[7][21]}	
Vapour pressure	0.061 kPa ^[7]	
Relative vapour density	2.70 ^[20]	
Dynamic viscosity	2.47 mPa·s ^[7]	
Kinematic viscosity	No data available.	
Refractive index n _D ²⁰	1.4783 ^[7]	

Property (item 9.1)	Value	Source
Auto-ignition temperature	215°C (experimental data) ^[7]	
Decomposition temperature	Not applicable	
Surface Tension	43.54 mN/m ^[9]	
Rozpuszcz. w wodzie	Miscible with water in all proportions. ^[9]	
Particle characteristics	Not applicable (REACH 9.1(r))	
log Kow (XLogP3)	-0.883 ^[7] (Silnie hydrofilny – nieoczekiwane dla cząsteczki organicznej) [PL]	
Molar mass	78.14 g/mol ^[7]	
Molecular formula	C ₂ H ₆ OS ^[7]	
Lipinski rule (RO5)	PASS	
Skin penetration	YES – this substance carries other chemicals through the skin!	

Where a property above reads "No data available", no measured value was found in the public sources consulted for this substance. The property has not been determined by MolGod.org and no value is inferred. "Not applicable" means the property has no meaning for this substance in the form supplied.

10. Stability and reactivity

Reactivity	Stable under normal storage and handling conditions.
Chemical stability	Thermally stable under recommended conditions.
Hazardous reactions	No hazardous reactions known under normal conditions.
Conditions to avoid	High temperatures, direct sunlight, moisture.
Incompatible materials	Strong oxidizers.
Decomposition products	Thermal decomposition products: CO, CO ₂ , SO _x .

11. Toxicological information

LD50 (oral)	17900 mg/kg m.c. (szczur, doustna) — praktycznie nietrujący [PL]
LD50 (dermal)	>8000 mg/kg m.c. (szczur, skóra) [PL]
LC50 (inhalation)	No data available.
Skin irritation	Category 2 — skin irritation.
Eye irritation	Category 2 — eye irritation.
Sensitisation	No data available.
Mutagenicity	No data available.
Carcinogenicity	No data available.
IARC classification (carcinogenicity)	No individual IARC monograph for this CAS — this is not confirmation of the absence of carcinogenicity (cf. CLP/GHS classification in section 2).
Reproductive toxicity	No data available.
STOT — single exposure	Category 3 (H335): May cause respiratory irritation. ^[3]
STOT — repeated exposure	No data available.
Aspiration hazard	No data available.

12. Ecological information

Aquatic toxicity	LC ₅₀ (fish, 96h): 33500 mg/L (Pimephales promelas, 96h). EC ₅₀ (Daphnia): 27500 mg/L (Daphnia magna, 48h). IC ₅₀ (algae): >10000 mg/L (Scenedesmus subspicatus, 72h)
Persistence / biodegradability	Readily biodegradable (OECD 301F). Natural metabolite present in soils.
Bioaccumulative potential	log Kow = -0.883 ^[7] . Low bioaccumulation potential (log Kow < 4.5 — PBT/vPvB screening criterion per ECHA Guidance R.11). ^{[17][18]} BCF: Does not bioaccumulate (logKow=-1.35, BCF<1).
Mobility in soil	No data available.
PBT/vPvB assessment	Does not meet PBT/vPvB criteria
Endocrine disrupting properties	Zgłoszone efekty endokrynne u organizmów wodnych (dane ekotoksykologiczne, US EPA ECOTOX; nie stanowią regulacyjnej klasyfikacji ED wg 2018/605). [PL] ^[19]

13. Disposal considerations

Disposal method	Incineration in an authorized hazardous waste incineration plant with energy recovery. Temperature >800°C, flue gas cleaning (SOx scrubber required — DMSO contains sulfur).
Waste code (EWC)	07 01 04* — Inne rozpuszczalniki organiczne, roztwory z przemysławania i cieczy macierzyste ^[13]
Packaging	Cleaned packaging may be recycled. Contaminated packaging must be treated as hazardous waste.
Licensed waste contractors (PL)	SARP-EKO (BDO 000028916); Remondis Polska; Mo-BRUK
BDO required	Yes

14. Transport information

UN number	Not assigned ^[11]
Proper shipping name	Not classified as a dangerous material for transport (ADR/IMDG/IATA) ^[11]
Environmental hazard	Environmental hazard for transport: not verified. Non-harmonised classification (outside CLP Annex VI) — verify aquatic toxicity (Section 12) and do NOT assume marine pollutant marking is not required; confirm per ADR 2.2.9 / IMDG before shipping.
Special precautions	Handle as dangerous goods according to the assigned class (ADR/IMDG/IATA); apply the precautions appropriate to that class.
CN/HS code	2930 90 98 (Other organic sulfur compounds) ^[12]
Notes	DMSO not classified — does not require UN packaging or ADR labelling. CLP classification only (H315/H319/H335).
Marine pollutant	No
Environmentally hazardous (mark: fish and tree)	No

15. Regulatory information

SVHC status	SVHC status not verified against the available dataset — check the current ECHA Candidate List; do not assume absence. ^[1]
REACH Annex XIV	Not verified against the ECHA Authorisation List — check REACH Annex XIV. ^[1]
REACH Annex XVII	Not confirmed in the available Annex XVII dataset — verify against the current ECHA list before placing on the market; do not assume absence of restriction. ^[1]
EC number type	EINECS

REACH registration number	01-2119468814-32-XXXX (the last part of the number is confidential — the full number is held by the registrant; verify with ECHA)
Index number (CLP Annex VI)	No (notified classification, not harmonised)
Harmonised classification	No (CLP self-classification — most notifiers: H315+H319+H335)
IARC classification (carcinogenicity)	Not classified by IARC
OEL — Journal of Laws (Poland)	Dz.U. 2024 poz. 1017 (NDS 150 mg/m ³ , NDSC 300 mg/m ³)
Svhc status	No
Us tsca	Active on TSCA Inventory
Japan enchcs	Listed (MITI No. 3-381)

16. Other information

Legal status of classification: supplier self-classification under Art. 4(3) CLP — no harmonised entry in Annex VI.Entries with an entry-into-force date after02.09.2026 were omitted as future (not yet applicable).

Data aggregated automatically from public reference databases (PubChem, ECHA, NIST and others).

Scientific citations (10)

Mussagy CU, Huckle HU, Ramos NF et al.. Tailor-made solvents for microbial carotenoids recovery.. Applied microbiology and biotechnology (2024). DOI: 10.1007/s00253-024-13049-x

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP). Scientific Opinion on the safety and efficacy of aliphatic and aromatic mono- and di-thiols and mono-, di-, tri-, and polysulphides with or without additional oxygenated functional groups (chemical group 20) when used as flavourings for all animal species. EFSA Journal (2013). DOI: 10.2903/j.efsa.2013.3208

Xue W, Li H, Xu J et al.. Effective cryopreservation of human brain tissue and neural organoids.. Cell reports methods (2024). DOI: 10.1016/j.crmeth.2024.100777

Dimethyl Sulfoxide.. (2006).

Mashouf P, Tabibzadeh N, Kuraoka S et al.. Cryopreservation of human kidney organoids.. Cellular and molecular life sciences : CMLS (2024). DOI: 10.1007/s00018-024-05352-7

Full text of H statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Full text of P statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of water
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes; Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing
P403+P233	Store in a well-ventilated place: Keep container tightly closed
P405	Store locked up
P501	Dispose of contents/container to an approved waste collection point

Abbreviations

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (Reg. (EC) 1272/2008)
CMR	Carcinogenic, Mutagenic, toxic to Reproduction
DNEL	Derived No-Effect Level
EC	European Community number
EPI	Personal protective equipment
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
SDS	Safety Data Sheet
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
NDS	Maximum admissible concentration (workplace, PL)
NDSch	Short-term exposure limit (PL)
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Reg. (EC) 1907/2006)
STOT	Specific Target Organ Toxicity
SVHC	Substance of Very High Concern
TPSA	Topological Polar Surface Area
vPvB	very Persistent and very Bioaccumulative

Version history

v1 (02.09.2026)	Based on supplier self-classification (ECHA C&L notifications; no harmonised entry in Annex VI).
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References

- [1] EP and Council. Reg.(EC) No 1907/2006 (REACH). Art.31, Annex II. OJ EU L 396/2006. URL: <https://eur-lex.europa.eu/eli/reg/2006/1907/oj> Accessed: 2026-09-02.
- [2] European Commission. Reg.(EU) 2020/878 — amending Annex II REACH. OJ EU L 203/2020. From 01.01.2023. URL: <https://eur-lex.europa.eu/eli/reg/2020/878/oj> Accessed: 2026-09-02.
- [3] EP and Council. Reg.(EC) 1272/2008 (CLP) + ATP 23. OJ EU L 353/2008. (2026-07-07) URL: <https://eur-lex.europa.eu/eli/reg/2008/1272/oj> Accessed: 2026-09-02.
- [4] United Nations. GHS Rev.9. ST/SG/AC.10/30/Rev.9. New York and Geneva: United Nations, 2021. URL: <https://unece.org/transport/dangerous-goods/ghs-rev9-2021> Accessed: 2026-09-02.
- [5] ISO. ISO 7010:2019 — Graphical symbols. Safety signs. URL: <https://www.iso.org/standard/72424.html> Accessed: 2026-09-02.
- [6] ISO. ISO 3864-1:2011 — Safety colours and safety signs. URL: <https://www.iso.org/standard/51021.html> Accessed: 2026-09-02.
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- [8] NIST. Chemistry WebBook, SRD 69. National Institute of Standards and Technology. URL: <https://webbook.nist.gov/cgi/cbook.cgi?ID=67-68-5>
- [9] Yaws, C.L. Thermophysical Properties of Chemicals and Hydrocarbons. 2nd ed. Amsterdam: Elsevier (Gulf Professional Publishing), 2014.
- [10] ECHA. REACH Registration Dossier (registered substance, acute toxicity study record). Helsinki: European Chemicals Agency. URL: <https://echa.europa.eu/registration-dossier>
- [11] UNECE. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), 2025 edition (ECE/TRANS/352). Geneva: United Nations. URL: <https://unece.org/adr>
- [12] European Commission. Combined Nomenclature (Council Regulation (EEC) No 2658/87). Chapter 29. OJ EU L 256. URL: <https://eur-lex.europa.eu/eli/reg/1987/2658/oj>
- [13] European Commission. Decision 2000/532/EC establishing a list of wastes (European Waste Catalogue). OJ EU L 226/3. URL: <https://eur-lex.europa.eu/eli/dec/2000/532/oj>
- [14] European Chemicals Agency (ECHA). Guidance on the Compilation of Safety Data Sheets. Version 4.0. Helsinki: European Chemicals Agency, 2020. URL: https://echa.europa.eu/documents/10162/2324906/sds_en.pdf
- [15] Urben, P.G., ed. Bretherick's Handbook of Reactive Chemical Hazards. 8th ed. Oxford: Academic Press.
- [16] CEN. Personal protective equipment standards (EN ISO 374-1, EN 166, EN 149, EN 14387, EN ISO 20345). Brussels: European Committee for Standardization.

- [17] ECHA. Guidance on Information Requirements and Chemical Safety Assessment, Chapter R.11: PBT/vPvB Assessment. Helsinki: European Chemicals Agency. URL: <https://echa.europa.eu/guidance-documents/guidance-on-information-requirements-and-chemical-safety-assessment>
- [18] European Parliament and Council. Regulation (EC) No 1907/2006 (REACH), Annex XIII — Criteria for the identification of PBT and vPvB substances. OJ EU L 396/2006 (consolidated). URL: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006R1907-20140410>
- [19] U.S. EPA. ECOTOX Knowledgebase. Washington, DC: U.S. Environmental Protection Agency. URL: <https://cfpub.epa.gov/ecotox/>
- [20] MOL-GOD. Value obtained by calculation from the molecular formula/molecular weight (the specific quantity and its formula are indicated at the respective field). Calculated value, not an experimental measurement. URL: <https://www.nist.gov/pml/atomic-weights-and-isotopic-compositions-relative-atomic-masses>
- [21] DECHEMA, PTB, and BAM. CHEMSAFE - Database of Evaluated Safety Characteristics for the Avoidance of Explosions. Frankfurt am Main: DECHEMA e.V.; Braunschweig/Berlin: Physikalisch-Technische Bundesanstalt and Bundesanstalt für Materialforschung und -prüfung. URL: <https://www.chemsafe.ptb.de>
- [22] MRIPS Regulation of 12.06.2018 — NDS/NDN. Journal of Laws 2024 item 1017. URL: <https://isap.sejm.gov.pl/isap.nsf/DocDetails.xsp?id=WDU20240001017> Accessed: 2026-09-02.

External links

NIST: <https://webbook.nist.gov/cgi/cbook.cgi?ID=67-68-5>

Wikidata: <https://www.wikidata.org/wiki/Q407927>

ChEMBL: https://www.ebi.ac.uk/chembl/compound_report_card/CHEMBL504

NFPA 704 (supplementary information — NFPA/USA system; not a required element of an EU safety data sheet under REACH Annex II)



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Generator: Document generated automatically from supplier self-classification (ECHA C&L notifications) and public physicochemical databases.

Author: www.MolGod.org — platform for automated safety data sheets (SDS).

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