

## SAFETY DATA SHEET (SDS)

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

Date: 21.09.2026 | Version: 1 | EN

## hexan-1-ol

hexan-1-ol

MOLAR MASS

102.17

LOGP

2.03

CAS 111-27-3

 $C_6H_{14}O$ 

EC 203-852-3

## HAZARD CLASSIFICATION (GHS / CLP)



## Warning

H302

Hazard class scope limited to the harmonised classification (CLP Annex VI); classes outside the harmonised entry may require supplier self-classification (CLP Art. 4(3)) — verify with the supplier safety data sheet.

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

|                       |                             |
|-----------------------|-----------------------------|
| 1.1 Substance name    | hexan-1-ol                  |
| 1.1 IUPAC name        | hexan-1-ol                  |
| 1.1 CAS number        | 111-27-3                    |
| 1.1 EC number         | 203-852-3                   |
| 1.1 PubChem CID       | 8103                        |
| 1.1 InChIKey          | ZSIAUFGUXNUGDI-UHFFFAOYSA-N |
| 1.1 SMILES            | CCCCCO                      |
| 1.1 Molecular formula | $C_6H_{14}O$ <sup>[7]</sup> |
| 1.1 Molar mass        | 102.17 g/mol <sup>[7]</sup> |
| 1.1 Exact mass        | 102.1045 Da <sup>[7]</sup>  |

## 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 +48 42 631 47 24

Toxicological Information Centre (CIT), Łódź — available 24/7

## 2. Hazards identification

GHS:



PPE:



Prohibitions:



**Warning**

### Hazard statements (H) <sup>[3][4][10]</sup>

**H302**

Harmful if swallowed

### Precautionary statements (P) <sup>[3][4][10]</sup>

**P264**

Wash thoroughly after handling

**P270**

Do not eat, drink or smoke when using this product

**P301+P312**

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

**P330**

Rinse mouth

**P501**

Dispose of contents/container to an approved waste collection point

Hazard class scope limited to the harmonised classification (CLP Annex VI); classes outside the harmonised entry may require supplier self-classification (CLP Art. 4(3)) — verify with the supplier safety data sheet.

### 3. Composition/information on ingredients

|                   |                                                                                       |
|-------------------|---------------------------------------------------------------------------------------|
| Substance type    | pure substance                                                                        |
| CAS Number        | 111-27-3                                                                              |
| EC number         | 203-852-3                                                                             |
| Molecular formula | C <sub>6</sub> H <sub>14</sub> O                                                      |
| Concentration     | ≥99% (typical reagent-grade purity — to be confirmed by the supplier's specification) |
| Clp index no      | 603-059-00-6                                                                          |

### 4. First aid measures



#### Inhalation

Move the affected person to fresh air. Keep at rest. If not breathing: artificial respiration (qualified personnel only). [\[1\]\[2\]\[13\]](#)

#### Skin contact

Remove contaminated clothing. Rinse skin with soap and water (min. 15 minutes). [\[1\]\[2\]\[13\]](#)

#### Eye contact

Rinse eyes with running water (min. 15 minutes). Remove contact lenses if possible. If irritation persists — consult an ophthalmologist. [\[1\]\[2\]\[13\]](#)

#### 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. [\[1\]\[2\]\[13\]](#)

#### Symptoms and effects

nausea, vomiting, diarrhoea. [\[3\]\[10\]](#)

#### Notes for physician

Requires verification

**Emergency numbers: Emergency: 112 (EU-wide).  
Poison centre: as designated in the country of  
placing on the market (CLP Art. 45).**

### 5. Firefighting measures

|                                |                                                                                |
|--------------------------------|--------------------------------------------------------------------------------|
| Suitable extinguishing media   | Adapt extinguishing media to surroundings. CO <sub>2</sub> , dry powder, foam. |
| Unsuitable extinguishing media | No specific restrictions.                                                      |
| Specific hazards               | Thermal decomposition products: CO, CO <sub>2</sub> . <a href="#">[14]</a>     |
| Advice for firefighters        | Use self-contained breathing apparatus (SCBA). Full protective suit.           |
| Flash Point                    | 58.4°C <a href="#">[7]</a>                                                     |
| Auto-ignition temperature      | 304.4°C <a href="#">[7]</a>                                                    |

### 6. Accidental release measures

|                                         |                                                                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions                    | Use personal protective equipment (see Section 8). Avoid breathing vapours. <a href="#">[1][2][13]</a>                                                                                                 |
| Environmental precautions               | Prevent entry into sewers, groundwater and surface water. <a href="#">[1][2][13]</a>                                                                                                                   |
| Methods for containment and cleaning up | Contain the spill with a barrier. Absorb with inert material (sand, vermiculite, diatomaceous earth). Collect into sealed, labelled containers. Do not release into drains. <a href="#">[1][2][13]</a> |
| Related sections                        | 8; 13                                                                                                                                                                                                  |

### 7. Handling and storage

|             |                                                                                                                               |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| Precautions | Work in a fume hood or with adequate ventilation. No eating, drinking or smoking in the work area. <a href="#">[1][2][13]</a> |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------|
| <b>Storage temperature</b>    | Store at room temperature (15-25°C) or as indicated on the label. <sup>[1][2][13]</sup> |
| <b>Humidity</b>               | Store in a dry place (<60% RH). <sup>[1][2][13]</sup>                                   |
| <b>Light</b>                  | Protect from direct sunlight. <sup>[1][2][13]</sup>                                     |
| <b>Incompatible materials</b> | Strong oxidizers. <sup>[14]</sup>                                                       |

## 8. Exposure controls/personal protection

### 8.1 Control parameters

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OEL — NDS (Poland)</b> | 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. |
| <b>OEL (EU)</b>           | 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.     |
| <b>DNEL</b>               | No data available.                                                                                                                                 |
| <b>PNEC</b>               | No data available.                                                                                                                                 |

### 8.2 Personal protective equipment (PPE) <sup>[5][6][15]</sup>



## 9. Physical and chemical properties

| Property (item 9.1)                                | Value                                                         | Source |
|----------------------------------------------------|---------------------------------------------------------------|--------|
| <b>Physical state</b>                              | Liquid                                                        |        |
| <b>Colour</b>                                      | No data available.                                            |        |
| <b>Odour</b>                                       | No data available.                                            |        |
| <b>pH (1% aqueous solution)</b>                    | Not applicable                                                |        |
| <b>Melting point</b>                               | -45°C <sup>[8] [7]</sup>                                      |        |
| <b>Boiling point</b>                               | 156.9327°C <sup>[8] [7]</sup>                                 |        |
| <b>Flash point</b>                                 | 58.4°C (experimental data) <sup>[7]</sup>                     |        |
| <b>Flammability</b>                                | No data available.                                            |        |
| <b>Lower and upper explosion limit</b>             | No data available.                                            |        |
| <b>Density (20°C)</b>                              | 0.8355 g/cm <sup>3</sup> <sup>[7]</sup>                       |        |
| <b>Vapour pressure</b>                             | 0.133 kPa (1 mmHg, 24.4°C) (experimental data) <sup>[7]</sup> |        |
| <b>Relative vapour density</b>                     | 3.53 <sup>[19]</sup>                                          |        |
| <b>Dynamic viscosity</b>                           | 0.592 mPa·s <sup>[7]</sup>                                    |        |
| <b>Kinematic viscosity</b>                         | No data available.                                            |        |
| <b>Refractive index n<sub>D</sub><sup>20</sup></b> | 1.4162 (experimental data) <sup>[7]</sup>                     |        |
| <b>Auto-ignition temperature</b>                   | 304.4°C (experimental data) <sup>[7]</sup>                    |        |

| Property (item 9.1)                                      | Value                                           | Source |
|----------------------------------------------------------|-------------------------------------------------|--------|
| <b>Decomposition temperature</b>                         | Not applicable                                  |        |
| <b>Surface Tension</b>                                   | 25.81 mN/m <sup>[9]</sup>                       |        |
| <b>Rozpuszcz. w wodzie</b>                               | 5.9 g/L, 25°C <sup>[7]</sup>                    |        |
| <b>Particle characteristics</b>                          | Not applicable (REACH 9.1(r))                   |        |
| <b>Partition coefficient n-octanol/water (log value)</b> | 2.03 <sup>[9]</sup>                             |        |
| <b>Molar mass</b>                                        | 102.17 g/mol <sup>[7]</sup>                     |        |
| <b>Molecular formula</b>                                 | C <sub>6</sub> H <sub>14</sub> O <sup>[7]</sup> |        |
| <b>Lipinski rule (RO5)</b>                               | <b>PASS</b>                                     |        |

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

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| <b>Reactivity</b>             | Stable under normal storage and handling conditions.  |
| <b>Chemical stability</b>     | Thermally stable under recommended conditions.        |
| <b>Hazardous reactions</b>    | No hazardous reactions known under normal conditions. |
| <b>Conditions to avoid</b>    | High temperatures, direct sunlight, moisture.         |
| <b>Incompatible materials</b> | Strong oxidizers.                                     |
| <b>Decomposition products</b> | Thermal decomposition products:CO, CO2.               |

## 11. Toxicological information

|                                              |                                                                                                                                                             |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LD50 (oral)</b>                           | LD50 720 mg/kg; 4590 mg/kg (rat, oral) <sup>[7]</sup>                                                                                                       |
| <b>LD50 (dermal)</b>                         | No data available.                                                                                                                                          |
| <b>LC50 (inhalation)</b>                     | No data available.                                                                                                                                          |
| <b>Skin irritation</b>                       | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>Eye irritation</b>                        | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>Sensitisation</b>                         | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>Mutagenicity</b>                          | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>Carcinogenicity</b>                       | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>IARC classification (carcinogenicity)</b> | No individual IARC monograph for this CAS — this is not confirmation of the absence of carcinogenicity (cf. CLP/GHS classification in section 2).           |
| <b>Reproductive toxicity</b>                 | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>STOT — single exposure</b>                | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>STOT — repeated exposure</b>              | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |
| <b>Aspiration hazard</b>                     | Not classified for this hazard (outside the scope of the harmonised classification in CLP Annex VI; verify supplier self-classification) <sup>[3][10]</sup> |

## 12. Ecological information

|                                        |                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic toxicity</b>                | LC <sub>50</sub> (fish): 97.7 mg/L (Pimephales promelas, 96 h). EC <sub>50</sub> (Daphnia): 201 mg/L (Daphnia magna, 24 h) <sup>[18]</sup>               |
| <b>Persistence / biodegradability</b>  | No data available.                                                                                                                                       |
| <b>Bioaccumulative potential</b>       | log Kow = 2.03 <sup>[9]</sup> . Low bioaccumulation potential (log Kow < 4.5 — PBT/vPvB screening criterion per ECHA Guidance R.11). <sup>[16][17]</sup> |
| <b>Mobility in soil</b>                | No data available.                                                                                                                                       |
| <b>PBT/vPvB assessment</b>             | Insufficient data to assess PBT/vPvB.                                                                                                                    |
| <b>Endocrine disrupting properties</b> | No information.                                                                                                                                          |

## 13. Disposal considerations

|                         |                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal method</b>  | Hand over for disposal to licensed contractors in accordance with national and local regulations. Do not discharge into sewers.                               |
| <b>Waste code (EWC)</b> | 16 05 06* — Laboratory and analytical chemicals (np. chemical reagents) zawierające substancje niebezpieczne. EWC code verification required. <sup>[12]</sup> |
| <b>Packaging</b>        | Cleaned packaging may be recycled. Contaminated packaging must be treated as hazardous waste.                                                                 |

## 14. Transport information

|                             |                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UN number</b>            | UN 2282 <sup>[7]</sup>                                                                                                                                 |
| <b>Environmental hazard</b> | Not classified as environmentally hazardous for transport (no H400/H410/H411 in CLP Annex VI; no marine pollutant mark required) <sup>[3]</sup>        |
| <b>Special precautions</b>  | Handle as dangerous goods according to the assigned class (ADR/IMDG/IATA); apply the precautions appropriate to that class.                            |
| <b>CN/HS code</b>           | CN/HS code: verification required in the Eurostat Combined Nomenclature.                                                                               |
| <b>Notes</b>                | UN number per the indicated source. Verify the transport class and packing group in ADR Table A / UN Model Regulations before shipment. <sup>[7]</sup> |

## 15. Regulatory information

|                         |                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SVHC status</b>      | SVHC status not verified against the available dataset — check the current ECHA Candidate List; do not assume absence. <sup>[1]</sup>                                       |
| <b>REACH Annex XIV</b>  | Not verified against the ECHA Authorisation List — check REACH Annex XIV. <sup>[1]</sup>                                                                                    |
| <b>REACH Annex XVII</b> | 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. <sup>[1]</sup> |

## 16. Other information

Legal status of classification: harmonised under CLP Annex VI — Reg. (EC) No 1272/2008 (as at the date of issue). Entries with an entry-into-force date after 21.09.2026 were omitted as future (not yet applicable).

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

### Scientific citations (10)

- et al.. Environmental stress enhances biosynthesis of flavor precursors, S-3-(hexan-1-ol)-glutathione and S-3-(hexan-1-ol)-L-cysteine, in grapevine through glutathione S-transferase activation.. (2011). DOI: 10.1093/jxb/erq376
- Synthesis, antidepressant activity, and toxicity of the erythro/threo racemates and optical isomers of 2-(4-benzylpiperazin-1-yl)-1-(5-chloro-6-methoxynaphthalen-2-yl)hexan-1-ol.. (2015). DOI: 10.1111/cbdd.12438
- et al.. First identification and quantification of S-3-(hexan-1-ol)-γ-glutamyl-cysteine in grape must as a potential thiol precursor, using UPLC-MS/MS analysis and stable isotope dilution assay.. (2017). DOI: 10.1016/j.foodchem.2017.05.116
- et al.. Oral activity of the antimalarial endoperoxide 6-(1,2,6,7-tetraoxaspiro[7.11]nonadec-4-yl)hexan-1-ol (N-251) against Leishmania donovani complex.. (2019). DOI: 10.1371/journal.pntd.0007235
- et al.. Antimalarial activity of endoperoxide compound 6-(1,2,6,7-tetraoxaspiro[7.11]nonadec-4-yl)hexan-1-ol.. (2011). DOI: 10.1016/j.parint.2011.04.001

## Full text of H statements

**H302** Harmful if swallowed

## Full text of P statements

**P264** Wash thoroughly after handling

**P270** Do not eat, drink or smoke when using this product

**P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**P330** Rinse mouth

**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 (21.09.2026)** Based on ECHA harmonised classification (Annex VI to CLP, ATP 23).

## 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: 2026-09-21.
- [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: 2026-09-21.
- [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: 2026-09-21.
- [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: 2026-09-21.
- [5] ISO. ISO 7010:2019 — Graphical symbols. Safety signs. URL: <https://www.iso.org/standard/72424.html> Accessed: 2026-09-21.
- [6] ISO. ISO 3864-1:2011 — Safety colours and safety signs. URL: <https://www.iso.org/standard/51021.html> Accessed: 2026-09-21.
- [7] PubChem. National Center for Biotechnology Information (NIH/NLM), chemical compound database. URL: <https://pubchem.ncbi.nlm.nih.gov/compound/8103>

- [8] NIST. Chemistry WebBook, SRD 69. National Institute of Standards and Technology. URL: <https://webbook.nist.gov/cgi/cbook.cgi?ID=111-27-3>
- [9] Yaws, C.L. Thermophysical Properties of Chemicals and Hydrocarbons. 2nd ed. Amsterdam: Elsevier (Gulf Professional Publishing), 2014.
- [10] ECHA. European Chemicals Agency — harmonised classification inventory (CLP Annex VI). URL: <https://echa.europa.eu>
- [11] ECHA. REACH Registration Dossier (registered substance, acute toxicity study record). Helsinki: European Chemicals Agency. URL: <https://echa.europa.eu/registration-dossier>
- [12] 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>
- [13] 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](https://echa.europa.eu/documents/10162/2324906/sds_en.pdf)
- [14] Urben, P.G., ed. Bretherick's Handbook of Reactive Chemical Hazards. 8th ed. Oxford: Academic Press.
- [15] CEN. Personal protective equipment standards (EN ISO 374-1, EN 166, EN 149, EN 14387, EN ISO 20345). Brussels: European Committee for Standardization.
- [16] 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>
- [17] 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>
- [18] U.S. EPA. ECOTOX Knowledgebase. Washington, DC: U.S. Environmental Protection Agency. URL: <https://cfpub.epa.gov/ecotox/>
- [19] 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>
- [20] 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: 2026-09-21.

### External links

NIST: <https://webbook.nist.gov/cgi/cbook.cgi?ID=111-27-3>  
ChEMBL: [https://www.ebi.ac.uk/chembl/compound\\_report\\_card/ChEMBL14085](https://www.ebi.ac.uk/chembl/compound_report_card/ChEMBL14085)

**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 ECHA harmonised classification (Annex VI to CLP) and public physicochemical databases.

**Author:** [www.MolGod.org](http://www.MolGod.org) — platform for automated safety data sheets (SDS).

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