



Serving Scientific Community
Since 1985



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
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MENADIONE FOR BIOCHEMISTRY

1. Product Identification

Synonyms: 2-Methyl-1,4 naphthoquinone

CAS No.: 58-27-5

Molecular Weight: 172.19

Chemical Formula: $C_{11}H_8O_2$

Product Code: 045174

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Menadione	58-27-5	> 98%

3. Hazards Identification

Potential Health Effects

Inhalation: No information found, but compound should be handled as a potential health hazard.

Ingestion: No information found, but compound should be handled as a potential health hazard.

Skin Contact: May cause irritation with redness and pain

Eye Contact: May cause irritation, redness and pain.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes.

Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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7. Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container

8. Exposure Controls/Personal Protection

Personal protection: Avoid all unnecessary exposure.

Respiratory protection: Wear approved mask.

Hand protection: Wear protective gloves.

Skin protection: Wear suitable protective clothing.

Eye protection: Chemical goggles or safety glasses.

Others: When using, do not eat, drink or smoke.

Occupational Exposure Limits: No data available.

9. Physical and Chemical Properties

Physical state at 20°C: Solid.

Colour: Yellowish green powder

Odour: Slight odor

Odour threshold: No data available.

pH value: Not applicable.

Melting point [°C]: 105 - 107 °C

Decomposition point [°C]: N/A

Critical temperature [°C]: N/A

Auto-ignition temperature [°C]: N/A

Flammability (solid, gas): N/A

Flash point [°C]: N/A

Boiling point [°C]: N/A

Initial boiling point [°C]: N/A

Final boiling point [°C]: N/A

Evaporation rate: N/A

Vapour pressure [20°C]: N/A

Vapour pressure mm/Hg: N/A

Vapour density: N/A

Density [g/cm³]: N/A

Solubility in water [% weight]: Insoluble in water

Solubility in water: N/A

Log Pow octanol / water at 20°C: No data available.

Solubility: N/A

Viscosity at 40°C [mm²/s]: N/A

10. Stability and Reactivity

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Not established.

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.



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11. Toxicological Information

Acute toxicity

Inhalation: Based on available data, the classification criteria are not met.

Dermal: Based on available data, the classification criteria are not met.

Ingestion: Based on available data, the classification criteria are not met.

Corrosion: Based on available data, the classification criteria are not met.

Irritation: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

Sensitization: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological Information

Toxicity information: Not established.

Persistence - degradability: Biodegradable.

Bioaccumulative potential: Not established.

Mobility in soil: Not established.

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions: Avoid release to the environment.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not Regulated

15. Regulatory information

Safety, health and environmental: Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture

Chemical Safety Assessment: It has not been carried out.

16. Other information

Product Use

Laboratory Reagent