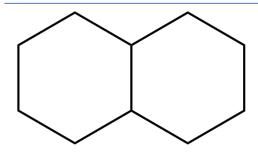


Decahydronaphthalene (DHN)



Decahydronaphthalene (DHN) is a stable, water-white, cyclo-aliphatic solvent with a low freezing point and high boiling point, low sulfur content and low metals content. DHN is useful as a solvent for specialty applications, as well as for dissolving naphthalene, fats, resins, oils and waxes. It can substitute for turpentine in lacquers, shoe polishes and waxes. It has uses in various unique fuels applications.

CAS number

91-17-8

Synonyms

Decalin; Bicyclo[4.4.0]decane; Perhydronaphthalene

Product code

41042

Typical Physical Properties of DHN

138.3 g/mol
C ₁₀ H ₁₈
Colorless Liquid
-43°C (-46°F)
187°C (368°F)
58°C (138°F)
250°C
0.88 kg/L
7.34 lb/gal
0.11 kPa
0.89 mg/L
31 dyne/cm
3.7 cP
0.7 v/v%
4.9 v/v%

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the product from any particular lot will conform exactly to the given values.

Health and safety information

Under current U.S. OSHA's Hazardous Communication program DHN is classified as a flammable liquid and can cause serious eye and skin damage. Keep the material away from heat sources, hot surfaces, open flames, and sparks.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.





Storage and Handling

General industry practice is to store DHN in carbon steel vessels. Storage in properly lined steel or stainless steel to avoid slight discoloration from carbon steel is recommended. Product stored or delivered in unlined carbon steel vessels must be filtered due to technically unavoidable particles.

DHN should be stored under a nitrogen blanket when available. This product may absorb water if exposed to air. Avoid contact with air when storing for long periods of time.

DHN should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents.

Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, DHN manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. DHN that is subsequently repackaged, handled and/or delivered by third parties may have a different shelf life and may require third party shelf life studies. Color may increase overtime depending on storage conditions. Product past the retest date should be evaluated to confirm that all specifications are within their limits before use.

Additional Information

To learn more about Monument Chemical and the products and services we offer please visit our website at www.monumentchemical.com.

Effective Date: 10/29/2021

Revision: 2

Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological

Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email SDS@monumentchemical.com. Before using or handling this product, the SDS should be thoroughly reviewed.

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