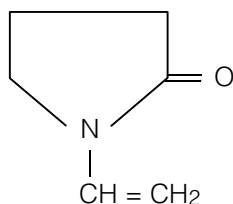


N-Vinyl-2-Pyrrolidone

Technical Data Sheet

February 1997

Formula:..... C_6H_9NO
Molecular Weight: 111.1
Product Number:
 caustic stabilized..... 551500
 amine stabilized..... 551501
CAS Registry Number:..... 88-12-0



Description

N-Vinyl-2-pyrrolidone (NVP) is either caustic stabilized with 0.1% NaOH, or amine stabilized with 10 ppm N,N'-di-sec-butyl-paraphenylene diamine.

NVP is a slightly to moderately yellow heterocyclic, reactive vinyl monomer made from the reaction of acetylene and 2-pyrrolidone. The inherent properties of high polarity, low toxicity, water solubility, chemical stability and pseudo-cationic activity are imparted to its homopolymers and copolymers.

Safety

N-Vinyl-2-pyrrolidone may irritate the skin and eyes and contact may result in corneal opacity. Inhalation of vapors or mists may irritate the respiratory tract.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

Applications

The NVP monomer is commonly used as a reactive diluent in ultraviolet and electron-beam curable polymers applied as inks, coatings or adhesives. Copolymers of NVP are used in the

Customer Service:

EAST 1-800-426-8696
WEST 1-800-543-1740

Product Specifications	Value	Test Method
Assay, % minimum	99.0	STI 8908
Impurities:		
Water, % maximum	0.1	STI 8413
2-Pyrrolidone, % maximum	0.2	STI 8908-1
Color, APHA maximum (at time of drumming)	100	STI 8415
Foreign matter	none	STI 8412

Physical Properties

Boiling range, °C @ 13 mbar	90 – 92
Melting point, °C	13.6
Density @ 20°C, g/ml	1.043
Flash point, °C	95
Viscosity @ 20°C, mPa•s	2.4

above applications and also for textile finishes and sizes, cosmetics, pharmaceuticals and as a vehicle for hair spray.

Packaging

Available in 4,000 gallon minimum tank trucks and 440 lb (net weight) /490 lb (gross weight) non-returnable steel drums.

Storage & Handling

NVP tends to polymerize as storage time and temperature increase. To prevent this undesirable polymerization, small amounts of a stabilizer are added during drumming and prior to shipping bulk quantities. It may assume a yellow color after several months of storage, but its quality will not be impaired.

It is neither explosive nor spontaneously flammable. However, it is combustible.

If a drum of NVP has solidified, it should be melted carefully in a water-bath or warm room at 30°C maximum. The drum should not be heated with steam.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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