

N-Vinyl-2-pyrrolidone

Water-soluble vinyl monomer for PVP, copolymers and reactive-diluent formulations.

CAS No. 88-12-0	EC / List No. 201-800-4	Transport Non-dangerous goods
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Product Information

N-Vinyl-2-pyrrolidone contains a reactive vinyl group and a polar lactam ring. It is used as a monomer for polyvinylpyrrolidone and copolymers, and as a reactive diluent in selected radiation-curable coatings, inks and adhesives. The properties of a finished polymer are different from the exposure hazards of the starting monomer.

Specifications

Parameter	Specification
Appearance at 25°C	Clear, colorless to yellowish liquid
N-vinylpyrrolidone	≥99.5 %
α-Pyrrolidone	≤0.2 %
Moisture	≤0.2 %
Density	1.03–1.04 g/mL
Crystallization point	13.0–14.0 °C
Colour	<100 APHA

The stated supply limits apply to the selected grade. The density test temperature is not specified. The matched substance reference is non-dangerous goods for transport; use the SDS for chemical hazard and handling information.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₉ NO
Molecular weight	111.14 g/mol

Applications

PVP and copolymer manufacture: Vinyl monomer for PVP and related copolymer synthesis. Evaluate purity, colour, water content and grade-specific stabilization against the polymerization process.

UV-curable coatings, inks and adhesives: Reactive-diluent component for selected radiation-curable formulations. Evaluate viscosity, cure response, adhesion and residual monomer in the finished system.

Polymer binders and textile finishing: Starting monomer for functional polymer binders and textile-processing formulations. Validate the finished polymer properties and end-use requirements; raw NVP is not interchangeable with a finished flocculant or consumer ingredient.

Packaging / Storage

Item	Information
Packing	250 kg iron drums
Storage	Keep in closed original containers in a ventilated area, separated from acids and acid-forming substances. Control storage temperature and preserve the grade-specific stabilization and nitrogen-blanketing arrangements; avoid prolonged heating.
Handling	Use closed transfer or local extraction to control vapour and mist. Wear chemical-resistant gloves, protective clothing and eye/face protection. Prevent ignition and static accumulation. Follow controlled warming procedures if crystallized; do not apply direct flame.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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