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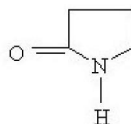
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Technical Data Sheet

2-Pyrrolidone

Product Information

Chemical Name	2-Pyrrolidone
CAS #	616-45-5
Formula	C ₄ H ₇ NO
Molecular Weight	85.1
Synonyms	Butyrolactam; G-Butyrolactam; Gamma-Butyrolactam; 2-Pyrrolidone; 2-Azacyclopentanone
Chemical Structure	



Description

2-pyrrolidone is a colorless to slightly yellow liquid above 25°C., with a faint amine odor. It is a high-polar solvent and it is miscible with water and conventional organic solvents. It is miscible with a wide variety of other solvents including water, ethanol, diethyl ether, chloroform, benzene, ethyl acetate and carbon disulfide.

Physical Properties

Melting point, °C .	23-25
Boiling range, °C	245
Density @ 20°C, g/cm ³	1.12
Flash point, °C	230 °F (110 °C)

Specification

Item	
Appearance	Colorless liquid
Assay, % min.	99.5
Water, % max.	0.10
PH(10% Solution)	8.5-10..5

Safety

May cause irritation to eyes, skin and respiratory systems. Avoid contact with strong acids and oxidizing agents.

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

Applications

Intermediate used in/as:

- Formulation aids
- Industrial chemicals
- Initial product for chemical syntheses
- Pharmaceuticals
- Solvent for inks

Recommended Use

To produce synthetic resin

To produce pesticide

To produce polyvalent alcohol

To produce polyvinylpyrrolidone

To produce polyamide-4 fiber

To produce piracetam

To produce printing inks and coatings

Packaging

200kg per iron drum.

16mt per 20ft container

Storage & Handling

2-Pyrrolidone has a shelf life of 12 months in unopened, original containers, stored below 30° C but above 25° C. It must be protected from fire and sources of ignition. The container should be kept dry as the product is hygroscopic.

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

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