



TECHNICAL DATA SHEET

Product name: Valeronitrile

Specifications

Parameters	Specifications	Typical results
Appearance	Clear Colorless Liquid	Complies
Refractive Index (20°C)	1.396-1.397	1.396
Assay (GC)	NLT 99%	99.66%

Stability and storage:

Valeronitrile is generally considered stable under recommended storage conditions.

Recommended temp; below 30°C

It should be stored in a cool, dry, and well-ventilated area, away from heat sources, open flames, and direct sunlight.

Incompatible with strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

It is also flammable, so precautions should be taken to prevent ignition sources.

Application Area:

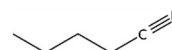
Valeronitrile is a nitrile compound with applications as a solvent and a precursor in the synthesis of various chemicals, including valeric acid and other agrochemicals, pharmaceuticals, and chemical intermediates.

Valeronitrile is used as an industrial solvent due to its distinct physical properties compared to other solvents.

It serves as a starting material for the production of valeric acid (pentanoic acid), which has its own set of applications.

Valeronitrile is used in the synthesis of agrochemicals.

It is a building block for the synthesis of pharmaceuticals and other chemical intermediates.



General information

CAS No.	: 110-59-8
IUPAC Name	: Pentane nitrile
Synonyms	: Butyl cyanide
EC No.	: 203-781-8

Physical/Chemical properties:

Molecular Formula	: C ₅ H ₉ N
Molecular weight	: 83.13
Boiling point	: 139-141°C
Density	: 0.798
Physical state at 20°C	: Liquid
Flash Point	: 105°F

Hazard classification & labelling:

Single Word	: Warning
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Pictogram :



Classification according to Regulation (EC) No 1272/2008 : H226, H301, H302

Precautionary statement(s) : P210, P233, P240, P241, P242, P243, P264, P270, P280, P301+P310, P301+P312, P303+P361+P353, P321, P330, P370+P378, P403+P235, P405, P501