



Acrylonitrile

CAS Number	Formula
107-13-1	C ₃ H ₃ N or H ₂ C(CH)CN

Acrylonitrile is a clear, colorless or pale-yellow liquid at room temperature with chemical formula H₂C(CH)CN. It has a sweet, sharp odor like onion or garlic. It is soluble in water and is volatile in nature. Acrylonitrile is an important commercial chemical.

SPECIFICATION

Acrylonitrile	99.60 wt %
Acetone	1 ppm
Oxazole	1 ppm
Acetonitrile	5 ppm
Propionitrile	11 ppm
Methyl acrylonitrile	15 ppm
Acrolein	103 ppm
Acidity (as Acetic acid)	8.8 ppm
Aldehydes (as Acetaldehyde)	6 ppm
HCN	1.2 ppm
Copper	0.01 ppm
Iron	0.01 ppm
Water	0.39 wt. %
Peroxides	Less than 0.01
Appearance	Clear
Color (APHA)	10 APHA
Inhibitor (MEHQ)	37 ppm
Non-volatile matter (ppm mass)	56.0
Oxygen bomb stability (hours)	More than 4
pH	6.8
Tritation Value (mL)	Less than 0.5

MAJOR USE: In the manufacture of acrylic and modacrylic fibres for use in clothing and textiles, such as fleece jumpers, sportswear, carpets and upholstery. Acrylic fibres are also used as a precursor in the production of carbon fibre.

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