

Isoprene

Product name:	Isoprene
Molecular formula:	C ₅ H ₈ CH ₂ =C(CH ₃)CH=CH ₂
Formula Weight:	68.12
Synonyms:	2-Methyl-1, 3-butadiene
CAS:	78-79-5
NIOSH/RTECS Number:	NT4037000

Composition/ Information on Ingredients:

Ingredient:	Isoprene
Weight%:	≥98.0

Physical and Chemical Properties:

Boiling Point:	34°C (93F)	
Specific Gravity:	0.68	
Melting Point:	-147.7°C (-231F)	(H ₂ O=1)
Vapor Pressure(MM HG):	560	
Evaporation Rate:	>25	
Vapor Density (Air=1):	2.35	(Butyl Acetate=1)
Lower Exposition Limits (V%):	1.0%	
Upper Exposition Limits (V%):	10.0%	
Solubility :	Negligible (less than 0.1%)	
% Volatile by Volume:	100	
Appearance/ Odor:	Colorless or light color, volatile liquid with aromatic odor.	

Stability and Reactivity:

Stability:	Unstable
Hazardous Polymerization:	May occur
Conditions to Avoid:	Heat, flame, other sources of ignition, insufficient inhibitor
Incompatibles:	Strong oxidizing agents

Disposal Considerations

Dispose in accordance with both national and local environmental regulations.

Transportation Information (for reference):

Proper Shipping Name:	Isoprene
Hazard Class:	Flammable Liquid (Class 3.1)
UN/NA:	UN1218
Labels:	Flammable Liquid
Reportable Quantity:	1000LBS

Specification of Isoprene Monomer

(IPM 99.5%)

Item	Unit	Specification
APPEARANCE		Colorless Liquid
PURITY	WT%	99.5 MIN
DIMER	WT%	0.3 MAX
PARAFFIN/ MONO OLEFIN	WT%	0.7 MAX
CYCLOPENTADIENE	WT PPM	5 MAX
SULFUR	WT PPM	5 MAX
TOTAL ACETYLENES	WT PPM	50 MAX
CARBONYLS	WT PPM	10 MAX
METAPENTADIENE	WT PPM	80 MAX
INHABITE: TBC	WT PPM	60~120 Typical

Specification of Isoprene Monomer

(IPM 98.5%)

Item	Unit	Specification
APPEARANCE		Colorless Liquid
COLOUR (Pt-Co)		100 MAX
PURITY	WT%	98.5 MIN
WATER	WT%	0.030 MAX
TBC**		Proper

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For order or more information please contact chemie@sunny-gmbh.de.