

# ISOPHORONE

**CAS NO. 78-59-1**

Product Description	Key Features	Application
Isophorone is an unsaturated cyclic ketone of a high degree of purity. Isophorone is a waterwhite liquid.	<ul style="list-style-type: none"> <li>• Excellent dissolving power for numerous binders, resins and chemical products</li> <li>• Excellent levelling agent in industrial stoving enamels based on saturated polyesters, polyacrylates and alkyd, epoxy and phenol-formaldehyde resins.</li> <li>• Miscible with organic solvents like aliphatic and aromatic hydrocarbons, alcohols, ethers, esters and ketones in any ratio</li> <li>• In the formulation of plant protection agents, Isophorone is a remarkable solvent.</li> <li>• REACH compliance</li> <li>• Substances of Very High Concern (SVHC)</li> </ul>	<ul style="list-style-type: none"> <li>• Varnish</li> <li>• Printing ink</li> <li>• Plant protection agent</li> </ul>

Properties	Typical Value	Unit	Test Based On
Acid content (calc. as acetic acid)	≤ 0.01	wt%	ASTM D 1613
Antimony (Sb)	< 0.05	mg/kg	-
Appearance	clear	-	Visual
Arsenic (As)	< 0.05	mg/kg	-
Barium (Ba)	< 0.5	mg/kg	-
Beryllium (Be)	< 0.05	mg/kg	-
Boiling range at 1013 hPa	210 - 216	°C	DIN 53 171
Cadmium (Cd)	< 0.05	mg/kg	-
Chromium (Cr)	< 0.05	mg/kg	-
Cobalt (Co)	< 0.05	mg/kg	-
Color (Hazen)	≤ 50	-	DIN ISO 6271/ ASTM D 1209
Copper (Cu)	< 0.05	mg/kg	-
Density at 20°C	approx. 0.918-0.923	g/mol	DIN 51 757 / ASTM D 2111
Evaporation number (diethyl ether = 1)	approx. 330	-	DIN 53 170
Flash point	approx. 85	°C	DIN EN ISO 2719
Heat of evaporation at b.p.	approx. 42.4	kJ/mol	-
Lead (Pb)	< 0.05	mg/kg	-
Manganese (Mn)	< 0.05	mg/kg	-
Mercury (Hg)	< 0.05	mg/kg	-
Molecular weight (C <sub>10</sub> H <sub>18</sub> )	138.25	g/mol	-
Nickel (Ni)	< 0.05	mg/kg	-
Purity (isomer mixture)	≥ 99.0	wt%	Gas chromatography
Refractive index at 25°C	approx. 1.476	-	DIN 51 423
Selenium (Se)	< 0.10	mg/kg	-
Solidification point	approx. - 8	°C	DIN ISO 3016
Solubility parameter at 25°C	17.9	(J/cm <sup>3</sup> ) <sup>1/2</sup>	-
Tin (Sn)	< 0.05	mg/kg	-
Vapor pressure at 20°C	0.4	hPa	-
Viscosity at 20°C	approx. 2.6	mPa s	DIN 53 015
Water content	≤ 0.1	wt%	DIN 51 777 / ISO 760

## Notes

Typical properties: these are not to be construed as specifications.

For additional technical, sales and order assistance please contact our sales representative

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