

Isophorone Diisocyanate (IPDI)

Technical DataSheet | Supplied by Vencorex

Isophorone Diisocyanate (IPDI) by Vencorex is used in the chemical synthesis of aliphatic polyisocyanates and polyurethanes, such as aqueous dispersible polyurethane polymers (PUD) showing exceptional weathering resistance. Improves hardness due to its rigid cycloaliphatic structure. It has a shelf life of 12 months.

Product Type	Isocyanates > Aliphatics > IPDI, Isophorone Diisocyanates (Cycloaliphatics)
Chemical Composition	3-Isocyanatomethyl-3, 5, 5- trimethylcyclohexylisocyanate
CAS Number	4098-71-9
Physical Form	Liquid
Appearance	Clear, Colorless
Product Status	COMMERCIAL

Isophorone Diisocyanate (IPDI) Properties

Property	Value & Unit	Test Condition	Test Method
Molecular weight	222.28 g/mol		
Hydrolyzable chlorine	< 200 ppm		
Total chlorine	< 400 ppm		
Assay	> 99.5 % by wt		
Bulk density @ 25°C	1058 kg/m ³		



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Specific heat @ 20°C 1.68 kJ/kg

Boiling point (under 1.33 KPa) 158 °C

Vapor pressure @ 20°C 0.04 Pa

Self-ignition temperature 430 °C

Flash point, closed cup 155 °C

Vapor density (air = 1) 7.63

Color < 30 APHA

NCO content 37.5 - 37.8 % by weight

Dynamic viscosity @ 20°C 15 mPa.s

Concentration of saturated vapour @ 20°C < 1 mbar