

Product Data Sheet

Isoamyl Alcohol (Isopentanol) - Technical Grade

Description

Description	Isoamyl Alcohol (3-methyl-1-butanol, commercially often a mixture with its isomer 2-methyl-1-butanol) is a colourless liquid with a characteristic banana-like odour, used as a solvent and chemical intermediate. It is a key precursor for isoamyl acetate ("banana oil") flavour/fragrance synthesis, a widely used extraction solvent in molecular biology (as a component of phenol-chloroform-isoamyl alcohol reagent), and a solvent for paints, lacquers and resins.
Applications	Synthesis of isoamyl acetate and other esters for flavour and fragrance applications Extraction solvent in molecular biology (phenol-chloroform-isoamyl alcohol reagent) Solvent for paints, lacquers, resins and coatings Chemical intermediate for pharmaceuticals and flotation agent in mineral processing
Grade	Technical/Industrial Grade, Min. 98% Assay
CAS No.	123-51-3

Key Benefits

1. High assay (min. 98%) supporting consistent, high-yield ester synthesis
2. Good solvency for resins, paints and lacquers
3. Widely accepted extraction solvent for laboratory and biotech applications
4. Characteristic odour profile useful in flavour and fragrance formulation
5. Moderate boiling point and volatility suited to standard industrial processing and recovery

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Assay (Isoamyl Alcohol)	GC Method	wt%	Min. 98.0
Density @ 20°C	Pycnometer / Density Meter	g/cm ³	0.809 – 0.812
Refractive Index @ 20°C	Refractometry	–	1.4075 – 1.4090
Water Content	Karl Fischer Method	wt%	Max. 0.3
Acidity (as Acetic Acid)	Titration Method	wt%	Max. 0.02
Colour (APHA/Pt-Co)	Visual / Colorimetric Method	–	Max. 20
Boiling Point	Distillation Range Method	°C	128 – 132
Appearance	Visual	–	Colourless clear liquid

Packaging

Packaging 200 kg (Net) HDPE/Steel Drums
 25 kg HDPE Jerry Cans
 1,000 kg IBC Totes
 Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated area away from heat, sparks and open flame – flammable liquid
2. Keep containers tightly closed to minimise evaporation and moisture pickup

3. Use explosion-proof electrical equipment in storage/handling areas where vapours may accumulate
4. Keep away from strong oxidising agents
5. Ground/bond containers during transfer to control static discharge

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting assay, water content and colour against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.