

Technical Data Sheet



Product Name Isopropanol

Synonyms Isopropyl alcohol; 2- propanol; propan-2-ol

Chemical Formula C_3H_8O

Product Description Isopropanol is a colorless, flammable liquid with a characteristic alcoholic odor. It is completely miscible with most solvents, including water, and is a suitable solvent for acrylic and epoxy resins, ethyl cellulose, natural resins, gums, polyvinyl butyral, alkaloids and some essential oils.

- Applications
- Nitrocellulose lacquers and thinners
 - Coupling agent in cleaners and polishes
 - Dehydrating agent
 - Extractant
 - Adhesives
 - Pharmaceutical
 - Cosmetics and toiletries
 - Disinfectants
 - Rubbing compounds
 - Lithographic printing
 - Chemical intermediate
 - De-icing
 - General purpose cleaners

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	60.1
Boiling Point @ 760 mmHg, 1.01 ar	82 °C (180 °F)
Flash Point (Setaflash Closed Cup)	12 °C (54°F)
Freezing Point	-89 °C (<-128°F)
Vapor pressure@ 25°C — extrapolated	33.1 mmHg 6.02 kPa
Specific gravity (20/20°C)	0.786
Liquid Density @ 20°C	0.79 g/cm ³
Vapor Density (air = 1)	2.1
Viscosity (cP or mPa·s @ 25°C)	2.1
Surface tension (dynes/cm or mN/m @ 20°C)	21.4
Specific heat (J/g°C @ 25°C)	No test data available
Heat of vaporization (J/g) at normal boiling point	No test data available
Net heat of combustion (kJ/g) — predicted @ 25°C	No test data available
Autoignition temperature	399 °C (750 °F)
Evaporation rate (n-butyl acetate = 1.0)	2.9

Solubility, g/L or % @ 20°C	
Solvent in water	100%
Water in solvent	100%
Hansen solubility parameters	
$(J/cm^3)_{1/2}$	
_Total	11.5
_Non-Polar	7.7
_Polar	3.0
_Hydrogen bonding	8.0
Partition Coefficient, n-octanol/water (log Pow)	0.05
Flammable limits (vol.% in air)	
Lower	2.0
Upper	12.0

Typical Physical Properties:

This data provided for those properties are typical values, and should not be construed as sales specifications.

Classification/Registry Numbers/Country Inventory@.

CAS#	67-63-0
AICS (Australia)	67-63-0
DSL (Canada)	67-63-0
IECSC (China)	67-63-0
ECI (Korea)	67-63-0/KE-29363
EINECS (EU)	200-661-7
MITI (Japan)	67-63-0
ENCS/IHSL (Japan)	2-207
NZIoC (New Zealand)	67-63-0
PICCS (Philippines)	67-63-0
TSCA (U.S.)	67-63-0

@NOTE: Classifications apply only to this Oxygenated Solvents product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

How Supplied

REGION	PACKAGING	TRANSPORT MODE
Europe/Africa	Bulk/Drum	Tank Truck
Latin America	Bulk/Drum	Tank Truck
North America	Bulk	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.



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