

Forum Chem Technical Specification Sheet

Iso-Butanol (CAS no. 78-83-1)

Synonyms: i-butanol, iso-butyl alcohol, i-butyl alcohol, 2-methyl-1- propanol

Chemical Formula: C₄H₁₀O

Product Description: A clear, colorless solution with a sweet musty odor

Typical Applications: Solvent (coatings/cleaners), Textiles, De-icing fluids, Intermediate for glycol ethers and esters, Flotation agents, Floor polishes, Extractant in production of drugs and antibiotics, hormones, vitamins, Additive in gasoline, Anticorrosion and anti-wear inhibitors in engine oils, Agricultural chemicals intermediate

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	74.12
Boiling point @ 760 mm Hg, 1.01 ar	107 °C
Flash Point (Setaflash Closed Cup	27.8 °C
Freezing Point	<-90 °C
Vapor pressure@ 20°C — extrapolated	8 mmHg
Specific gravity (20/20°C)	0.80
Liquid Density @ 20°C	0.80 g/cm ³
Vapor Density (air = 1)	2.55
Viscosity (cP or mPa•s @ 20°C)	3.102
Surface tension (dynes/cm or mN/m @ 25°C)	23
Auto ignition temperature	390 °C
Evaporation rate (n-butyl acetate = 1.0)	0.74
Solubility, g/L or % @ 20°C Solvent in water	8.7 g/l
Water in solvent	15%
Flammable limits (vol.% in air)	
Lower	1.2
Upper	12
Typical Physical Properties: This data provided for those properties, are typical values & should not be construed as sales specifications.	

Sales Specifications

Parameter	Specification	Analytical method
Iso-Butano	99.5% wt min	HY 221
Acidity (acetic acid as basis)	0.005% wt max	HY 28 (ASTM D 1613)
Water	0.1% wt max	HY 11 (ASTM D 1364)
Color (Pt-Co)	10 max	HY 4 (ASTM D 1209)
Aldehyde (Butyraldehyde as basis)	0.1% wt max	HY 2 (BS 4583:1970)

Disclaimers "The information in this publication is submitted without prejudice, and is based on our current knowledge, experience and on a limited number of tests". "In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the information in this publication".