

## BASF N-Butanol

Category : Fluid , Solvent

### Material Notes:

Formula: C<sub>4</sub>H<sub>10</sub>O CAS: 71-36-3 Description: n-Butanol is a clear, mobile, neutral liquid with a characteristic odor. It is miscible with all common solvents, e.g., alcohols, ketones, aldehydes, ethers, glycols, and aromatic and aliphatic hydrocarbons, but is only sparingly soluble in water Applications: A large part of the n-Butanol produced is converted into derivatives (primarily esters) for use as solvents in the coatings industry. n-Butanol is an eminently suitable solvent for acid-curable lacquers and baking finishes derived from urea (Plastopal), melamine (Luwipal), or phenolic resins. Some butyl esters of dicarboxylic acids, phthalic anhydride, and acrylic acid are established plasticizers for plastics, rubber mixes, and dispersions. The most important are dibutyl phthalate (DBP), benzylbutyl phthalate (BBP), and butyl acrylate. Dibutylsebacate (DBS) and dibutyl azelate (DBZ) are of subordinate importance. The corresponding adipate is too volatile to be a plasticizer and is therefore of no practical significance in these applications. The applications in which normal butane can be used are as follows: solvent for dyes, e.g. in printing inks; extractant in the production of drugs and natural substances such as antibiotics, hormones, vitamins, alkaloids and camphor; additive in polishes and cleaners, e.g. floor cleaners and stain removers; solubilizer in the textile industry, e.g. additive in spinning baths or carrier for coloring plastics; additive in deicing fluids; gasoline additive (antiicing); mobile phase in paper and thin layer chromatography; humectant for cellulose nitrate; feedstock for the production of glycol ethers (in reactions with ethylene or propylene oxide); starting material for various butyl monocarboxylates, e.g. butyl acetate and butyl butyrate, that are widely used as solvents; and feedstock for the production of flotation aids, e.g. butyl xanthate Information provided by BASF

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[http://www.lookpolymers.com/polymer\\_BASF-N-Butanol.php](http://www.lookpolymers.com/polymer_BASF-N-Butanol.php)

Physical Properties	Metric	English	Comments
Density	0.810 - 0.813 g/cc	0.0293 - 0.0294 lb/in <sup>3</sup>	
Molecular Weight	74.1 g/mol	74.1 g/mol	

Thermal Properties	Metric	English	Comments
Distillation Temperature	117 - 118 °C @Pressure 0.101 MPa	243 - 244 °F @Pressure 14.7 psi	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.050 %	<= 0.050 %	ASTM D1364

Descriptive Properties	Value	Comments
Acidity, as HCl	0.003	as acetic acid, ASTM D1613
Assay	>99.8%	
Color	<5	ASTM D1209

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