### n-Butanol

**n-Butyl Alcohol**  
**1-Butanol**  
\( \text{CH}_3(\text{CH}_2)_2\text{CH}_2\text{OH} \)

**Description**  
A colorless, neutral liquid of medium volatility with a characteristic banana-like odor.

<table>
<thead>
<tr>
<th>Physical properties</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>74.12</td>
</tr>
<tr>
<td>Relative Evaporation Rate ( \text{nBuAc}=1 )</td>
<td>0.44</td>
</tr>
<tr>
<td>Vapor Pressure at 20°C, mmHg</td>
<td>4.2</td>
</tr>
<tr>
<td>Density at 20°C lb/gal</td>
<td>6.75</td>
</tr>
<tr>
<td>Specific Gravity at 20/20°C</td>
<td>0.810</td>
</tr>
<tr>
<td>Viscosity at 20°C cP</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Surface Tension

(dynes/cm at 20°C) -
(dynes/cm at 25°C) 24.2

#### Hansen Solubility Parameters

- Total 11.3
- Non-Polar 7.8
- Polar 2.8
- Hydrogen Bonding 7.7

#### Boiling Point, °C at 760mm Hg

117.7

#### Solubility at 20°C

- %Wt In Water 7.7
- %Wt Water in 20.1

#### Closed Cup Flash Point °F

95

#### SARA 313 (see note 1†)

Y

#### Hazardous Air Pollutant (see note 2††)

N

† Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III  
Section 313

†† Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

### Classification/Registry Numbers

- CAS Number 71-36-3
- EINECS 200-751-6
n-Butanol
n-Butyl Alcohol
1-Butanol

Features
- Restricted miscibility with water
- Freely miscible with all common solvents such as glycols, ketones, alcohols, aldehydes, ethers, aromatic and aliphatic hydrocarbons
- Prevents blushing of certain coatings
- Improves flow, gloss and resistance to blushing in cellulose lacquers
- Suitable solvent for acid curable lacquers and baking finishes derived from urea
- Non-HAP (Hazardous Air Pollutant) Solvent

Applications
- Coatings
- Textiles
- Intermediate for glycol ethers
- Flotation agents
- Cleaners
- Floor polishes
- Extractant in production of drugs and antibiotics, hormones, vitamins
- Additive in gasolines
- Chemical intermediate (esters, alkylamines)

How supplied
- Bulk: Tank truck/tank car
- Marine tankers or barges

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.