

## Butyl acetate (n-Butyl acetate; Acetic acid n-butyl ester)

### Description & Properties

Butyl acetate is a clear, moderately volatile liquid with a characteristic ester odour. It is miscible with all conventional solvents such as alcohols, ketones, aldehydes, ethers, glycols, glycol ethers, aromatic hydrocarbons and aliphatic hydrocarbons. Its solubility in water is limited.

Due to its versatility Butyl acetate is an important solvent the paints industry for cellulose nitrate, resins and polymers and for oils and fats. Its moderate volatility and its resistance to blushing and levelling problems such as orange peel effects make it possible for paints with excellent levelling and gloss to be formulated. Butyl acetate is often employed in combination with Butanol (n-Butanol) in paints, because Butanol enhances the resistance to blushing and increases the solvency in many cases. Please note that Butanol cannot be used in paint systems that have to be free of hydroxyl groups, such as isocyanate paints.

Butyl acetate can also be employed as an extractant in the manufacture of pharmaceutical preparations and as an ingredient of cleaners, essences and fragrances because of its low water absorption, its high resistance to hydrolysis and its high solvency.

### Storage & Handling

Stored in its original packaging and kept under proper conditions the storage stability of the products is 24 months.

### Chemical Nature

Acetic acid n-butyl ester

Molecular formula	$C_6H_{12}O_2$
Molar mass	116,16 g/mol
CAS number	123-86-4
EC number	204-658-1

## Specifications

Property	Test Method	Unit	Butyl acetate
Appearance (visual color)			Transparent liquid colorless to slightly yellowish
Density @ 20°C		kg/l	0,880 – 0,882
Butyl acetate		%	≥ 99,5
Mass Fraction of Water	DIN EN 51777, Part 1	%	≤ 0,05
Refractive index @ 20°C	DIN 51423	$n_{D20}$	1,394
Mass fraction of non-volatile residue		%	≤ 0,001
Mass fraction of acids in terms of acetic acid		%	≤ 0,005
Color Value (Hazen)	DIN EN ISO 6271	--	≤ 10

The abovementioned data shall constitute the agreed contractual quality of the product at the time of passing risk. The data are controlled at regular intervals as of our quality assurance program. Neither these data nor the properties of the product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.