



Product Name Butyl CARBITOL™ Acetate Solvent

Synonyms Diethylene glycol n-butyl ether acetate.

Chemical Formula $C_4H_9O(CH_2CH_2O)_2C(O)CH_3$

Product Description Butyl CARBITOL™ Acetate Solvent is a high boiling, slow evaporating ester solvent that provides a good balance of volatility, solvency and water solubility. Butyl CARBITOL™ Acetate is frequently used as a coalescing solvent in waterborne coatings and provides a good balance of volatility, solvency and water solubility. The ability of this solvent to distribute between the aqueous and polymeric phases contributes to film formation and formulation stability. Butyl CARBITOL™ Acetate Solvent also promotes color development and touch-up properties to architectural coatings, particularly in conditions of low temperature and high humidity. Its mild, nonresidual odor makes it ideal for use in interior latex coatings.

Applications

- Latex coalescent in water-based architectural and industrial coatings
- Slow evaporation solvent used in specialty printing inks
- Solvent used in agricultural pesticides

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	204.3
Boiling Point @ 760 mmHg, 1.01 ar	245.3 °C (473.5 °F)
Flash Point (Setaflash Closed Cup)	105 °C (221 °F)
Freezing Point	-32 °C (-26 °F)
Vapor pressure@ 25°C — extrapolated	<0.01 mmHg
@ 20°C — extrapolated	0.5 Pa
Specific gravity (20/20°C)	0.979
Liquid Density @ 20°C	0.976 g/cm ³
Vapor Density (air = 1)	7
Viscosity (cP or mPa·s @ 20°C)	3.5
Surface tension (dynes/cm or mN/m @ 20°C)	surface activity is neither expected nor predicted
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	290 °C (554 °F)
Evaporation rate (n-butyl acetate = 1.0)	<0.01
Solubility, g/L @ 25°C	
Solvent in water	65
Hansen solubility parameters (J/cm ³) ^{1/2}	

γ_d (Dispersion)	16.0
γ_p (Polar)	4.1
γ_h (Hydrogen bonding)	8.2
Partition Coefficient, n-octanol/water (log Pow)	1.7
Flammable limits (vol.% in air)	
Lower	0.76
Upper	10.7

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#	124-17-4
AICS (Australia)	124-17-4
DSL (Canada)	124-17-4
IECSC (China)	124-17-4
ECI (Korea)	124-17-4
EINECS (EU)	204-685-9
MITI (Japan)	124-17-4
ENCs/IHSL (Japan)	2-744
NZIoC (New Zealand)	124-17-4
PICCS (Philippines)	124-17-4
TSCA (U.S.)	124-17-4

@NOTE: Classifications apply only to this glycol ether 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	Drum	Not Applicable
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

Product Stewardship

For More Information

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Europe:

Toll-free (+800) 3-694-6367

(+31) 11567-2626

Asia-Pacific:

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(+60) 3-7958-3392

Latin America:

(+55) 11-5188-9222

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