

Butyl CARBITOL Acetate Solvent Diethylene Glycol n-butyl Ether Acetate

 $C_4H_9O(CH_2CH_2O)_2C(O)CH_3$

A high boiling, slow evaporating ester solvent that provides a good balance of volatility, solvency and water solubility

Introduction

Butyl CARBITOL™ Acetate Solvent 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.

Physical properties†

Molecular weight (g/mol)	204.3	
Boiling point	476.1°F	246.7°C
Flash point	221°F	105°C
Freezing point	-26°F	-32°C
Vapor pressure@ 20°C	<0.01 mmHg	<0.001 kPa
Specific gravity (20/20°C)		0.979
Density @ 20°C		8.16 lb/gal
Viscosity (cP or mPa•s @ 25°C)		3.2
Surface tension (dynes/cm or mN/m @ 25°C)		30.0
Evaporation rate	(n-butyl acetate = 1.0)	<0.01
Solubility, g/100g @ 25°C Solvent in water Water in solvent		6.5 3.7
Hansen solubility parameters (J/cm ³)1/2 _d (Dispersion) _p (Polar) _h (Hydrogen bonding)		16.00 4.10 8.20
Flammable limits (vol.% in air) Lower Upper		0.76%(V) 10.7%(V)

[†]The physical property data listed here are considered to be typical properties, not specifications.

Classification/Registry Numbers††

CAS Number	124-17-4
AICS (Australia)	124-17-4
DSL (Canada)	124-17-4
ECL (Korea)	KE-04138
EINECS (EU)	2046859
MITI (Japan)	(2)-744
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.

Suggested Applications

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

Features

- Superior dispersion stability
- A good balance of volatility, solvency and water solubility
- Good coalescing efficiency
- Slow evaporation rate

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

Product Stewardship

The Dow Chemical Company has a fundamental concern for all who make, distribute, and use our family of glycol ether products and the environment we share. This concern is the basis for our Product Stewardship philosophy, by which we assess all available information on our products and then take appropriate steps to protect employee and public health and the environment. In addition, Dow is committed to implementing the guiding principles and management practices of the chemical industry's Responsible Care† initiative, which includes Product Stewardship as one of the Management Practices. As part of our Product Stewardship effort, information such as Material Safety Data Sheets and literature on DOW glycol ethers are provided to assist customers in handling our glycol ether products in a safe and responsible manner.

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