

BUTYL CARBITOL ACETATE



Cas Number: 111-76-2

Other Names: 2-(2-Butoxyethoxy)ethyl acetate;

Diethylene glycol monobutyl ether acetate;
Butoxyethoxyethyl acetate; Butyl diglycol acetate

Formula: C₁₀H₂₀O₄

PRODUCT INTRODUCTION

Butylcarbitol Acetate is a clear, high-boiling, low volatility, slightly hygroscopic liquid with a mild ester-type odor. It is freely miscible with most common organic solvents, but miscible with water only between certain limits.

PHYSICAL AND CHEMICAL PROPERTIES

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|--|-------------|
| Molecular Weight | 204.3 g/mol |
| Boiling Point | 246.7°C |
| Flash Point | 105°C |
| Freezing Point | -32°C |
| Vapor Pressure at 20°C | <0.001 kPa |
| Specific Gravity (20/20°C) | 0.979 |
| Density at 20°C | 8.16 lb/gal |
| Viscosity (cP or mPa.s at 25°C) | 3.2 |
| Surface Tension (dynes/cm or mN/m at 25°C) | 30.0 |
| Evaporation Rate | < 0.01 |
| Solubility (g/100g at 25°C) | |
| Solvent in Water | 6.5 |
| Water in Solvent | 3.7 |
| Hansen Solubility Parameters (J/cm ³) ^{1/2} | |
| _d (Dispersion) | 16.00 |
| _p (Polar) | 4.10 |
| _h (Hydrogen Bonding) | 8.20 |
| Flammable Limits (vol.% in air) | |
| Lower | 0.76 %(V) |
| Upper | 10.7 %(V) |

APPLICATIONS

- The main application for BDGA is as a solvent in formulations for paints, cleaning fluids, coatings and inks.
- In the coatings industry it is utilized as latex coalescent for water-based industrial coatings.
- In the paint industry, it is a high boiling solvent and leveling agent, and a coalescent in paints and lacquers.
- It is an effective solvent for cleaning fluids and is now marketed as a cleaning agent in the electronics industry.
- In the ink industry it is valued as a solvent for specialty printing inks and for ball point pen pastes.
- It is also a suitable solvent for dyes used in wood stains and furniture polishes.

PACKAGING OPTIONS

Drums
