



Technical Data Sheet

DALPAD™ C Glycol Ether

Synonyms

Tripropylene glycol n-butyl ether

Chemical Formula

$C_4H_9O[C_3H_6O]_2CH_2CHOHCH_3$

Product Description

DALPAD™ C Glycol Ether is the slowest-evaporating member of the family of DOWANOL™ Glycol Ethers. DALPAD™ C is a high boiling, colorless solvent with low viscosity and practically no odor. Due to its length and hydrophobic structure, DALPAD™ C has a high organic solubility, low water solubility and a high boiling point. Its unique properties make it suitable for a number of waterborne resins where a powerful coalescent is needed for proper film formation. Its solvating characteristics combined with low water solubility ensure the DALPAD™ C will almost completely partition into the resin phase, thus providing superior coalescence. The extremely low odor of DALPAD™ C makes it suitable for indoor decorative plants.

Applications

- Water-based paints as low odor efficient coalescing agent for waterborne paints; it provides excellent film formation. DALPAD™ C is a NOT-VOC according to Decopaint directive 2004/42/CE. DALPAD C is listed as SVOC in Annex B of ISO 11890-2. Provides excellent scrub resistance.
- Solvent-based paints as clear, odorless, light yellowish, mobile solvent.

Typical Physical Properties

Property	Value
Molecular weight (g/mol)	248.4
Boiling Point @ 760 mmHg, 1.01 ar	275° C (527° F)
Flash Point (Setaflash Closed Cup)	126° C (259° F)
Freezing Point	<-75° C (<-103° F)
Vapor pressure @ 20° C — extrapolated	<0.01 mmHg 0.02 Pa
Specific gravity (25/25° C)	0.930
Liquid Density @ 20° C @ 25° C	0.930 g/cm3 0.927 g/cm3
Vapor Density (air = 1)	>6
Viscosity (mm²/s @ 25° C)	7.0
Surface tension (dynes/cm or mN/m @ 20° C)	29.7
Specific heat (J/g/°C @ 25° C)	1.80
Heat of vaporization (J/g) at normal boiling point	2220
Net heat of combustion (kJ/g) — predicted @ 25° C	30.4
Auto ignition temperature	202° C (396° F)
Evaporation rate (n-butyl acetate = 1.0)	<0.01
Solubility, g/L or % @ 25° C, solvent in water	40.2 g/L
Hansen solubility parameters (J/cm³)¹/²	
_d (Dispersion)	14.8
_p (Polar)	1.7
_h (Hydrogen bonding)	7.9
Partition Coefficient, n-octanol/water (log Pow)	1.9
Flammable Limits (vol. % in air)	
Lower	--
Upper	--

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#	55934-93-5
AICS (Australia)	55934-93-5
DSL (Canada)	55934-93-5
IECSC (China)	55934-93-5
ECI (Korea)	55934-93-5/97-3-252
EINECS (EU)	259-910-3
MITI (Japan)	55934-93-5
ENCS/ISHL (Japan)	7-97
NZIoC (New Zealand)	55934-93-5
PICCS (Philippines)	55934-93-5
TSCA (U.S.)	55934-93-5

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	Bulk/Drum	Tank Truck
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

For More Information

North America:

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Europe:

Toll-free: +8 (003) 694-6367

+3 (111) 567-2626

Asia-Pacific:

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+6 (037) 958-3392

Latin America:

+55 (115) 188-9222

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Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

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