

DB Solvent CAS NO. 112-34-5

 Product Description DB Solvent is an organic solvent that can improves the flow-out and gloss of baking enamels. It is an effective coalescent aid in both architectural and industrial maintenance formulations. DB Solvent can be used in printing inks to increase dry times, and provides excellent coupling ability for the effective removal of contaminants in Industrial & household cleaners. It is also used in coatings for solvent-sensitive plastic substrates. In textile dyeing formulations, DB Solvent promotes rapid, uniform penetration of the dyes. 	 Key Features Efficient coalescent Good coupling efficiency Good solvent activity High blush resistance High dilution ratio Inert - Food use with limitations Inert - Nonfood use LVP-VOC Low surface tension Low volatility/Low vapor pressure Miscible with water and most organic liquids REACH compliant Readily biodegradable Slow evaporation rate 	Application Architectura Auto OEM Auto plastic Auto plastic Auto refinis Automotive Automotive Brake fluids Concrete Flexograph Formulators Furniture Graphic art Industrial cl Janitorial & Lubricants Paints & co Protective c Rubber mo Soap/deterg Textile Wood coati	I coatings s n parts & accessories c printing inks c printing inks s eaners household cleaners atings vents ioatings dification gents
Properties	Typical Value	Unit	Test Based On
Acidity as Acetic acid	0.01 Max	wt %	
Assav	99 0 Min	wt%	
	204 (400)	°C (°F)	D 2155
	204 (400)		D 2133
Biush Resistance @ 80 °F (20.7 °C)	60	% RΠ	
Downey Point @ 700 mining	225 (455)	°C (°E)	
Initial	235 (435) 230 (441)	°C (°F)	
Color Pt-Co	10 Max	-	
Critical Pressure	25.3	ATM	
Critical Temperature	380.8	°C	
Critical Volume	526	ml/a.mol	
Dilution Ratio			
Toluene	3.9	-	
VMP Naphtha	1.9	-	
Electrical Resistance	<0.3	Megohms	
Empirical Formula	C ₈ H ₁₈ O ₃		
Evaporation Rate			
(ether = 1)	4034	-	
(II-DUTYI ACCTATE = 1)	0.003	- 	
Expansion Coefficient @ 20 °C	0.0000	Pei 5	
Lower @ 135 °C	0.85	vol%	
Upper @ 199 °C	24.6	vol%	
Fire Point	117 (242)	°C (°F)	
Flash Point	× /	. ,	
Cleveland Open Cup	111 (232)	°C (°F)	
Freezing Point	-76 (-105)	°C (°F)	
Hansen Solubility Parameters			
Hydrogen bonding	5.2	-	
Nonpolar	7.8	-	
Polar	3.4	-	
	110	-	
Heat of Compustion	-1109	kcai/g.mol	

Heat of Vaporization

12920

cal/g.mol

Properties	Typical Value	Unit	Test Based On
Liquid Heat Capacity @ 54 °C	80.62	cal/(g.mol) °C	
Liquid Viscosity @ 25 °C	4.7	cP (mPa.s)	
Maximum Incremental Reactivity (MIR)	2.7	-	
Molecular Weight	162.23	-	
Nitrocellulose Solubility	Active		
Refractive Index @ 20°C	1.4316	-	
Solubility			
In water, @ 20 °C	Complete		
Water in, @ 20 °C	Complete		
Specific Gravity @ 20°C/20°C	0.955	-	
Surface Tension @ 20 °C	30	Dynes/cm	
Vapor Density (air = 1)	5.6	-	
Vapor Pressure			
@ 20 °C	0.02	mmHg	
@ 55 °C	0.04	kPa	
Wt/Vol @ 20 °C	0.96 (7.94)	Kg/L (lb/gal)	

Notes

Typical properties: these are not to be construed as specifications.

¹Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

©2020-2021. Union Petrochemical. The user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. Union Petrochemical does not guarantee the typical (or other non-specification) values. Typical values only represent the values one would expect if the properties were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values may not be based upon a statistically relevant number of tests. Analysis may be performed on representative samples and not the actual product shipped. The information is this document relates only to the named product or materials when not in combination with any other product or materials. We based the information of data believed to be reliable on the date compiled, but we do not represent, warrant or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no warranty against patent infringement, not any endorsement of any product or process, and we expressly disclaim any contrary implication.