



Tergitol XD

poly(ethylene glycol-ran-propylene glycol) monobutyl ether

Catalog Nr.	Q152																																																																		
Definition	TERGITOL™ XD Surfactant is an outstanding nonionic emulsifier and/or dispersing aid for agricultural concentrates and latex polymerizations. It is also widely used in the manufacture of iodophors for germicidal cleaners.																																																																		
CAS Number	9038-95-3																																																																		
Application	TERGITOL™ XD Surfactant is widely used as an emulsifier or dispersing aid for agricultural insecticides and herbicides. In such applications, TERGITOL XD is often a component in a non-aqueous solution of active ingredients, and it serves to emulsify the actives upon dilution with water. TERGITOL XD is also suitable for use as an emulsifier during latex polymerizations, where it sometimes functions as a dispersing agent, preventing the latex particles from coalescing and settling out of solution.																																																																		
Technical Data	<table><tr><td>Molecular weight</td><td>142.33</td></tr><tr><td>Color (pt-Co)</td><td>20 max</td></tr><tr><td>Empirical Formula</td><td>C9H18O</td></tr><tr><td>Specific gravity</td><td>0.811</td></tr><tr><td>Wt/Vol @ 20 C</td><td>0.81 kg/l (6.76 lb/gal)</td></tr><tr><td>Solubility (in Water @ 20C)</td><td>0.05 wt %</td></tr><tr><td>Solubility (water In @ 20C)</td><td>0.7 wt %</td></tr><tr><td>Evaporation rate (n-butyl Acetate =1)</td><td>0.2</td></tr><tr><td>Evaporation rate (ether=1)</td><td>60.5</td></tr><tr><td>Dilution ratio (Toluene)</td><td>1.5</td></tr><tr><td>Dilution ratio (VMP Naphta)</td><td>0.8</td></tr><tr><td>Refractive Index @ 20C</td><td>1.415</td></tr><tr><td>Vapor density (air=1)</td><td>4.9</td></tr><tr><td>Vapor pressure @ 20C</td><td>1.4 mm Hg</td></tr><tr><td>Vapor pressure @ 55C</td><td>1.4 Kpa</td></tr><tr><td>Boiling point @ 760 mm Hg</td><td>163 C/ 325 F (Initial)</td></tr><tr><td>Boiling point @ 760 mm Hg</td><td>176 C/ 348 F (dry point)</td></tr><tr><td>Freezing point</td><td>-42C (-43F)</td></tr><tr><td>Flash point Tag closed cup</td><td>49 C (120F)</td></tr><tr><td>Autoignition temperature</td><td>396C (745F)</td></tr><tr><td>Azeotropes BP</td><td>97C (206.6F)</td></tr><tr><td>Azeotropes wt % in water</td><td>51.9 wt %</td></tr><tr><td>Hansen solubility parameters</td><td></td></tr><tr><td>Non polar</td><td>7.6</td></tr><tr><td>Polar</td><td>1.8</td></tr><tr><td>Hydrogen bonding</td><td>2</td></tr><tr><td>Total</td><td>8</td></tr><tr><td>Surface Tension @ 20C</td><td>24.6 dynes/cm</td></tr><tr><td>TLV PPM 1998</td><td>25</td></tr><tr><td>Blush resistance @ 26.7C (80F)</td><td>95% RH</td></tr><tr><td>Electrical resistance</td><td>0.4 megaohms</td></tr><tr><td>Critical temperature</td><td>341.8 C</td></tr><tr><td>Critical pressure</td><td>24.5 ATM</td></tr></table>	Molecular weight	142.33	Color (pt-Co)	20 max	Empirical Formula	C9H18O	Specific gravity	0.811	Wt/Vol @ 20 C	0.81 kg/l (6.76 lb/gal)	Solubility (in Water @ 20C)	0.05 wt %	Solubility (water In @ 20C)	0.7 wt %	Evaporation rate (n-butyl Acetate =1)	0.2	Evaporation rate (ether=1)	60.5	Dilution ratio (Toluene)	1.5	Dilution ratio (VMP Naphta)	0.8	Refractive Index @ 20C	1.415	Vapor density (air=1)	4.9	Vapor pressure @ 20C	1.4 mm Hg	Vapor pressure @ 55C	1.4 Kpa	Boiling point @ 760 mm Hg	163 C/ 325 F (Initial)	Boiling point @ 760 mm Hg	176 C/ 348 F (dry point)	Freezing point	-42C (-43F)	Flash point Tag closed cup	49 C (120F)	Autoignition temperature	396C (745F)	Azeotropes BP	97C (206.6F)	Azeotropes wt % in water	51.9 wt %	Hansen solubility parameters		Non polar	7.6	Polar	1.8	Hydrogen bonding	2	Total	8	Surface Tension @ 20C	24.6 dynes/cm	TLV PPM 1998	25	Blush resistance @ 26.7C (80F)	95% RH	Electrical resistance	0.4 megaohms	Critical temperature	341.8 C	Critical pressure	24.5 ATM
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