

## Solvent Comparison – TergoSol™

Property	Unit	TergoSol	Acetone
Initial BP	°C	62.0	55
Vapour Pressure	<i>torr @ 20°C</i>	140.25	185
Evaporation rate	<i>n-BuAc = 1</i>	5.35	6.4
Viscosity	<i>cP</i>	0.89	0.36
Specific Gravity	<i>@ 20°C</i>	0.89	0.79
Flash Point	°C	4.5	-20
Kb value		54.7	-
MIR	<i>(g O<sub>3</sub>/g organics)</i>	0.065	0.43
VOC	<i>g/L @ 20° C</i>	2.82	exempt
Global Warming Potential	<i>100 yr GWP</i>	0	
Surface Tension	<i>dynes/cm</i>	25.1	22.3
Heat of Combustion	<i>btu/lb</i>	8583.8	13218.9
	<i>kcal/kg</i>	4771.3	7348.4
	<i>kJ/mol</i>	1550.3	1785.7
<b>δ (Hansen Solubility Parameters)</b>	<i>(MPa)<sup>1/2</sup></i>	18.7	19.9
<b>δH (Hydrogen-Bond)</b>	<i>(MPa)<sup>1/2</sup></i>	8.1	7.0
<b>δP (Polar)</b>	<i>(MPa)<sup>1/2</sup></i>	6.3	10.4
<b>δ (Dispersion)</b>	<i>(MPa)<sup>1/2</sup></i>	15.5	15.5
Hildebrand	<i>(MPa)<sup>1/2</sup></i>	19.5	19.7
<b>δ (Hansen Solubility Parameters)</b>	<i>(cal/cm<sup>3</sup>)<sup>1/2</sup></i>	9.1	9.7
<b>δH (Hydrogen-Bond)</b>	<i>(cal/cm<sup>3</sup>)<sup>1/2</sup></i>	4.0	3.4
<b>δP (Polar)</b>	<i>(cal/cm<sup>3</sup>)<sup>1/2</sup></i>	3.1	5.1
<b>δ (Dispersion)</b>	<i>(cal/cm<sup>3</sup>)<sup>1/2</sup></i>	7.6	7.6
Hildebrand	<i>(cal/cm<sup>3</sup>)<sup>1/2</sup></i>	9.5	9.8