

Solvent Comparison – BerdeSol™

Property	Unit	BerdeSol	Heptane
Initial BP	°C	59.0	98.4
Vapour Pressure	<i>torr @ 20°C</i>	80.6	40
Evaporation rate	<i>n-BuAc = 1</i>	2.5	3
Viscosity	<i>cP</i>	0.58	0.376
Specific Gravity	<i>@ 20°C</i>	0.94	0.68
Flash Point	°C	5.4	-4
Kb value		51.3	29
MIR	<i>(g O₃/g organics)</i>	0.047	1.28
VOC	<i>g/L @ 20°C</i>	0.0	680
Global Warming Potential	<i>100 yr GWP</i>	9	
Surface Tension	<i>dynes/cm</i>	20.4	20.1
Heat of Combustion	<i>btu/lb</i>	10898.0	19170.0
	<i>kcal/kg</i>	6058.0	10656.6
	<i>kJ/mol</i>	3549.9	4468.09
δ (Hansen Solubility Parameters)	<i>(MPa)^{1/2}</i>	14.9	15.3
δH (Hydrogen-Bond)	<i>(MPa)^{1/2}</i>	3.6	0
δP (Polar)	<i>(MPa)^{1/2}</i>	4.5	0
δ (Dispersion)	<i>(MPa)^{1/2}</i>	13.8	15.3
Hildebrand	<i>(MPa)^{1/2}</i>	16.9	15.3
δ (Hansen Solubility Parameters)	<i>(cal/cm³)^{1/2}</i>	7.3	7.5
δH (Hydrogen-Bond)	<i>(cal/cm³)^{1/2}</i>	1.8	0
δP (Polar)	<i>(cal/cm³)^{1/2}</i>	2.2	0
δ (Dispersion)	<i>(cal/cm³)^{1/2}</i>	6.7	7.5
Hildebrand	<i>(cal/cm³)^{1/2}</i>	8.2	7.4