

Table 1. Physical and Chemical Properties of Oxygenates

Property	MTBE	DIPE	ETBE	TAME	TBA	EtOH	Benzene
Molecular Weight	88.15	102.18	102.18	102.18	74.12	46.07	78.11
Specific Gravity	0.744	0.725	0.744	0.77	0.791	0.794	0.88
Weight % Oxygen	18.2	15.7	15.7	15.7	21.6	34.7	0.0
Water Solubility (mg/L)	~43,000	2,039-9,000	~26,000	~20,000	Infinitely soluble	Infinitely soluble	1,780
Henry's Law Constant	0.018	0.195-0.41	0.1087	0.0519	4.8x10 ⁻⁴	2.522x10 ⁻⁴	0.22
Vapor Pressure @ 25C, mm Hg	245-256	149-151	152	68.3	40-42	49-56.5	95.19
Log Koc	1.035	1.46-1.82	0.95-2.2	1.27-2.2	1.57	1.57	1.9

(modified after Zоргorski et al. 1997)