

TABLE 1

Solute Name	$\Delta G(\text{kcal/mol})$	$\Delta S(\text{cal/mol}^\circ\text{K})$	$C_p(\text{cal/mol}^\circ\text{K})$
methane	2.04(1.94)	-12.44(-13.15)	48.07(33.94)
ethanamide	-10.46(-9.68)	-22.15(-21.25)	-63.83(5.98)
methanethiol	-1.44(-1.24)	-14.64(-15.00)	39.78(50.91)
n_butane	2.25(2.15)	-19.40(-20.93)	77.67(74.09)
2_methylpropane	2.36(2.27)	-22.77(-21.33)	92.09(69.31)
methyl_ethyl_sulfide	-0.04(-1.48)	-20.02(-22.78)	57.14(20.55)
toluene	-0.46(-0.76)	-22.40(-17.72)	57.65(68.12)
methanol	-5.45(-5.07)	-16.27(-17.48)	-1.59(10.52)
ethanol	-5.03(-4.88)	-19.17(-19.73)	10.67(29.16)
3_methyl_1h_indole	-6.13(-5.88)	-23.23(-27.43)	28.95(80.31)
p_cresol	-6.27(-6.12)	-24.10(-25.50)	44.53(41.59)
propane	2.18(1.98)	-17.26(-17.64)	68.55(58.80)
Li	-126.64(-126.44)	-40.79(-39.20)	-16.35(-2.15)
Na	-100.39(-101.34)	-21.17(-31.79)	30.71(-6.69)
K	-83.74(-84.13)	-22.31(-22.94)	-18.92(-13.86)
Rb	-79.37(-78.64)	-23.53(-20.79)	-34.98(-19.12)
Cs	-73.51(-73.14)	-25.45(-19.36)	-55.15(-22.47)
Cl	-69.52(-72.66)	-14.02(-12.67)	-125.27(-13.38)
Br	-66.83(-66.44)	-12.89(-8.84)	-89.36(-14.34)
I	-60.68(-58.08)	-11.05(-3.35)	-17.67(-11.95)