1,6-Hexanediol, tetra-ethoxylated, diacrylate

Inchi: InChI=1S/C21H36O7/c1-4-20(3)27-18-16-25-14-12-23-10-8-6-7-9-11-24-13-15-26-17-19
InchiKey: LUEDFVLPSDHLMG-UHFFFAOYSA-N
Formula: C21H36O7
SMILES: C=CC(=C)OCCOCCOCCCCCCOCCOCCOC(=O)C=C
Mol. weight [g/mol]: 400.51

Physical Properties

Property code	Value	Unit	Source
gf	-378.01	kJ/mol	Joback Method
hf	-1016.17	kJ/mol	Joback Method
hfus	53.72	kJ/mol	Joback Method
hvap	81.62	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	3.059		Crippen Method
mcvol	330.640	ml/mol	McGowan Method
pc	1012.95	kPa	Joback Method
rinpol	2668.00		NIST Webbook
tb	858.19	K	Joback Method
tc	1050.74	K	Joback Method
tf	490.50	K	Joback Method
vc	1.270	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.43	J/mol×K	858.19	Joback Method
cpg	1066.92	J/mol×K	890.28	Joback Method
cpg	1083.13	J/mol×K	922.37	Joback Method
cpg	1098.04	J/mol×K	954.47	Joback Method
cpg	1111.65	J/mol×K	986.56	Joback Method
cpg	1123.93	J/mol×K	1018.65	Joback Method
cpg	1134.90	J/mol×K	1050.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R561105&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume