Methoxyacetamide, N,N-bis(2-ethylhexyl)-

Inchi: InChI=1S/C19H39NO2/c1-6-10-12-17(8-3)14-20(19(21)16-22-5)15-18(9-4)13-11-7-2/h17
InchiKey: AIOSYIIVLDJUMQ-UHFFFAOYSA-N
Formula: C19H39NO2
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)COC
Mol. weight [g/mol]: 313.52

Physical Properties

Property code	Value	Unit	Source
gf	-18.92	kJ/mol	Joback Method
hf	-623.32	kJ/mol	Joback Method
hfus	43.73	kJ/mol	Joback Method
hvap	68.31	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	4.894		Crippen Method
mcvol	295.990	ml/mol	McGowan Method
pc	1124.57	kPa	Joback Method
rinpol	2021.00		NIST Webbook
rinpol	2021.00		NIST Webbook
tb	721.97	K	Joback Method
tc	894.76	K	Joback Method
tf	378.52	K	Joback Method
vc	1.129	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.29	J/mol×K	721.97	Joback Method
cpg	912.08	J/mol×K	750.77	Joback Method
cpg	930.90	J/mol×K	779.57	Joback Method
cpg	948.80	J/mol×K	808.37	Joback Method
cpg	965.79	J/mol×K	837.16	Joback Method
cpg	981.91	J/mol×K	865.96	Joback Method
cpg	997.18	J/mol×K	894.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308493&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