2-(2-Ethoxyethoxy)ethyl nonanoate

Inchi: InChI=1S/C15H30O4/c1-3-5-6-7-8-9-10-15(16)19-14-13-18-12-11-17-4-2/h3-14H2,1-2H3
InchiKey: QNOCBHYYGWFCED-UHFFFAOYSA-N
Formula: C15H30O4
SMILES: CCCCCCCCC(=O)OCCOCCOCC
Mol. weight [g/mol]: 274.40

Physical Properties

Property code	Value	Unit	Source
gf	-368.50	kJ/mol	Joback Method
hf	-862.17	kJ/mol	Joback Method
hfus	39.77	kJ/mol	Joback Method
hvap	62.96	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.333		Crippen Method
mcvol	241.390	ml/mol	McGowan Method
pc	1428.30	kPa	Joback Method
rinpol	1838.00		NIST Webbook
rinpol	1838.00		NIST Webbook
tb	663.73	K	Joback Method
tc	832.31	K	Joback Method
tf	375.43	K	Joback Method
vc	0.935	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.20	J/mol×K	663.73	Joback Method
cpg	698.21	J/mol×K	691.83	Joback Method
cpg	714.51	J/mol×K	719.92	Joback Method
cpg	730.10	J/mol×K	748.02	Joback Method
cpg	744.97	J/mol×K	776.12	Joback Method
cpg	759.12	J/mol×K	804.21	Joback Method
cpg	772.55	J/mol×K	832.31	Joback Method
dvisc	0.0012296	Pa×s	375.43	Joback Method

dvisc	0.0006071	Pa×s	423.48	Joback Method
dvisc	0.0003461	Pa×s	471.53	Joback Method
dvisc	0.0002189	Pa×s	519.58	Joback Method
dvisc	0.0001496	Pa×s	567.63	Joback Method
dvisc	0.0001085	Pa×s	615.68	Joback Method
dvisc	0.0000825	Pa×s	663.73	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378249&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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