2-(2-Methoxyethoxy)ethyl nonanoate

Inchi: InChI=1S/C14H28O4/c1-3-4-5-6-7-8-9-14(15)18-13-12-17-11-10-16-2/h3-13H2,1-2H3
InchiKey: KTZHZWZDPVGXQA-UHFFFAOYSA-N
Formula: C14H28O4
SMILES: CCCCCCCCC(=O)OCCOCCOC
Mol. weight [g/mol]: 260.37

Physical Properties

Property code	Value	Unit	Source
gf	-376.92	kJ/mol	Joback Method
hf	-841.53	kJ/mol	Joback Method
hfus	37.18	kJ/mol	Joback Method
hvap	60.73	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.943		Crippen Method
mcvol	227.300	ml/mol	McGowan Method
pc	1537.87	kPa	Joback Method
rinpol	1778.00		NIST Webbook
rinpol	1778.00		NIST Webbook
tb	640.85	K	Joback Method
tc	809.32	K	Joback Method
tf	364.16	K	Joback Method
vc	0.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.05	J/mol×K	640.85	Joback Method
cpg	642.54	J/mol×K	668.93	Joback Method
cpg	658.36	J/mol×K	697.01	Joback Method
cpg	673.52	J/mol×K	725.08	Joback Method
cpg	688.01	J/mol×K	753.16	Joback Method
cpg	701.82	J/mol×K	781.24	Joback Method
cpg	714.96	J/mol×K	809.32	Joback Method
dvisc	0.0013326	Pa×s	364.16	Joback Method

dvisc	0.0006672	Pa×s	410.27	Joback Method
dvisc	0.0003842	Pa×s	456.39	Joback Method
dvisc	0.0002448	Pa×s	502.50	Joback Method
dvisc	0.0001683	Pa×s	548.62	Joback Method
dvisc	0.0001226	Pa×s	594.73	Joback Method
dvisc	0.0000935	Pa×s	640.85	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=U378250&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