2-[2-[2-(2-Butoxyethoxy)ethoxy]ethoxy]ethyl acetate

Other names: Tetraethylene glycol monobutyl ether, acetate
3,6,9,12-Tetraoxahexadec-1-yl acetate
Inchi: InChI=1S/C14H28O6/c1-3-4-5-16-6-7-17-8-9-18-10-11-19-12-13-20-14(2)15/h3-13H2,1-2
InchiKey: XGPAKKIIHOORKP-UHFFFAOYSA-N
Formula: C14H28O6
SMILES: CCCCOCCOCCOCCOCCOC(C)=O
Mol. weight [g/mol]: 292.37

Physical Properties

Property code	Value	Unit	Source
gf	-586.92	kJ/mol	Joback Method
hf	-1105.97	kJ/mol	Joback Method
hfus	39.55	kJ/mol	Joback Method
hvap	65.55	kJ/mol	Joback Method
log10ws	-0.89		Crippen Method
logp	1.416		Crippen Method
mcvol	239.040	ml/mol	McGowan Method
pc	1497.67	kPa	Joback Method
rinpol	1975.60		NIST Webbook
rinpol	1904.30		NIST Webbook
rinpol	1975.60		NIST Webbook
rinpol	1904.30		NIST Webbook
tb	685.69	K	Joback Method
tc	855.69	K	Joback Method
tf	408.62	K	Joback Method
vc	0.915	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.44	J/mol×K	685.69	Joback Method
cpg	701.66	J/mol×K	714.02	Joback Method
cpg	717.18	J/mol×K	742.36	Joback Method
cpg	731.98	J/mol×K	770.69	Joback Method

cpg	746.05	J/mol×K	799.02	Joback Method
cpg	759.35	J/mol×K	827.36	Joback Method
cpg	771.89	J/mol×K	855.69	Joback Method
dvisc	0.0006434	Pa×s	408.62	Joback Method
dvisc	0.0003470	Pa×s	454.80	Joback Method
dvisc	0.0002097	Pa×s	500.98	Joback Method
dvisc	0.0001379	Pa×s	547.15	Joback Method
dvisc	0.0000969	Pa×s	593.33	Joback Method
dvisc	0.0000716	Pa×s	639.51	Joback Method
dvisc	0.0000551	Pa×s	685.69	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U351939&Units=SI

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

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