2-[2-[2-[2-(2-Acetyloxyethoxy)ethoxy]ethoxy]etho
acetate

Other names: 3,6,9,12-tetraoxatetradecane-1,14-diyl diacetate

Inchi: InChI=1S/C14H26O8/c1-13(15)21-11-9-19-7-5-17-3-4-18-6-8-20-10-12-22-14(2)16/h3-12

InchiKey: MBGINZGOPMLHQN-UHFFFAOYSA-N

Formula: C14H26O8

SMILES: CC(=O)OCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 322.35

Physical Properties

Property code	Value	Unit	Source
af	0.9769		Cheméo Relay (1.0)
gf	-820.84	kJ/mol	Joback Method
hf	-1451.67	kJ/mol	Cheméo Relay (1.0)
hfus	42.34	kJ/mol	Joback Method
hvap	96.78	kJ/mol	Cheméo Relay (1.0)
ie	9.37	eV	Cheméo Relay (1.0)
log10ws	-0.54		Cheméo Relay (1.0)
logp	0.179		Crippen Method
mcvol	246.480	ml/mol	McGowan Method
pc	1552.45	kPa	Joback Method
rinpol	2102.00		NIST Webbook
rinpol	2102.00		NIST Webbook
rinpol	2098.00		NIST Webbook
rinpol	2100.00		NIST Webbook
rinpol	2094.00		NIST Webbook
rinpol	2109.00		NIST Webbook
rinpol	2098.00		NIST Webbook
rinpol	2102.00		NIST Webbook
rinpol	2103.00		NIST Webbook
rinpol	2101.00		NIST Webbook
rinpol	2099.00		NIST Webbook
rinpol	2105.00		NIST Webbook
rinpol	2094.00		NIST Webbook
rinpol	2108.00		NIST Webbook
rinpol	2109.00		NIST Webbook
rinpol	2099.00		NIST Webbook
rinpol	2108.00		NIST Webbook
tb	616.39	K	Cheméo Relay (1.0)

tc	771.38	K	Cheméo Relay (1.0)
tf	255.01	K	Cheméo Relay (1.0)
vc	0.951	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.94	J/mol×K	761.98	Joback Method
cpg	752.88	J/mol×K	791.97	Joback Method
cpg	766.95	J/mol×K	821.96	Joback Method
cpg	780.10	J/mol×K	851.94	Joback Method
cpg	792.31	J/mol×K	881.93	Joback Method
cpg	803.55	J/mol×K	911.92	Joback Method
cpg	813.79	J/mol×K	941.91	Joback Method
dvisc	0.0003580	Pa×s	480.78	Joback Method
dvisc	0.0002113	Pa×s	527.65	Joback Method
dvisc	0.0001359	Pa×s	574.51	Joback Method
dvisc	0.0000935	Pa×s	621.38	Joback Method
dvisc	0.0000677	Pa×s	668.25	Joback Method
dvisc	0.0000512	Pa×s	715.11	Joback Method
dvisc	0.0000401	Pa×s	761.98	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C22790132&Units=SI

Legend

af: Acentric Factor
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
ie:	Ionization energy
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