2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]e
acetate

Other names: Heptaethylene glycol monomethyl ether, acetate
3,6,9,12,15,18,21-Heptaoxadocos-1-yl acetate

Inchi: InChI=1S/C17H34O9/c1-17(18)26-16-15-25-14-13-24-12-11-23-10-9-22-8-7-21-6-5-20-4

InchiKey: STQGTZSSARVZIF-UHFFFAOYSA-N

Formula: C17H34O9

SMILES: COCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 382.45

Physical Properties

Property code	Value	Unit	Source
gf	-876.66	kJ/mol	Joback Method
hf	-1564.55	kJ/mol	Joback Method
hfus	50.89	kJ/mol	Joback Method
hvap	79.46	kJ/mol	Joback Method
log10ws	0.59		Crippen Method
logp	0.296		Crippen Method
mcvol	298.920	ml/mol	McGowan Method
pc	1170.42	kPa	Joback Method
rinpol	2478.30		NIST Webbook
tb	821.59	K	Joback Method
tc	1006.23	K	Joback Method
tf	509.12	K	Joback Method
vc	1.137	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	952.10	J/mol×K	821.59	Joback Method
cpg	969.21	J/mol×K	852.36	Joback Method
cpg	985.09	J/mol×K	883.14	Joback Method
cpg	999.69	J/mol×K	913.91	Joback Method
cpg	1012.98	J/mol×K	944.68	Joback Method
cpg	1024.90	J/mol×K	975.45	Joback Method
cpg	1035.40	J/mol×K	1006.23	Joback Method

dvisc	0.0001566	Pa×s	509.12	Joback Method
dvisc	0.0000885	Pa×s	561.20	Joback Method
dvisc	0.0000551	Pa×s	613.28	Joback Method
dvisc	0.0000369	Pa×s	665.36	Joback Method
dvisc	0.0000262	Pa×s	717.43	Joback Method
dvisc	0.0000195	Pa×s	769.51	Joback Method
dvisc	0.0000151	Pa×s	821.59	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=U351916&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