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

Other names: Hexaethylene glycol monomethyl ether, acetate
3,6,9,12,15,18-Hexaoxanonadec-1-yl acetate

Inchi: InChI=1S/C15H30O8/c1-15(16)23-14-13-22-12-11-21-10-9-20-8-7-19-6-5-18-4-3-17-2/h3

InchiKey: VSBDVTYPKAYARU-UHFFFAOYSA-N

Formula: C15H30O8

SMILES: COCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 338.39

Physical Properties

Property code	Value	Unit	Source
gf	-788.50	kJ/mol	Joback Method
hf	-1391.05	kJ/mol	Joback Method
hfus	44.52	kJ/mol	Joback Method
hvap	72.60	kJ/mol	Joback Method
log10ws	0.51		Crippen Method
logp	0.279		Crippen Method
mcvol	264.870	ml/mol	McGowan Method
pc	1357.63	kPa	Joback Method
rinpol	2208.70		NIST Webbook
tb	753.41	K	Joback Method
tc	928.26	K	Joback Method
tf	464.35	K	Joback Method
vc	1.008	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	802.83	J/mol×K	753.41	Joback Method
cpg	875.90	J/mol×K	899.12	Joback Method
cpg	863.21	J/mol×K	869.98	Joback Method
cpg	849.52	J/mol×K	840.84	Joback Method
cpg	834.87	J/mol×K	811.69	Joback Method
cpg	819.30	J/mol×K	782.55	Joback Method
cpg	887.57	J/mol×K	928.26	Joback Method

dvisc	0.0000273	Pa×s	753.41	Joback Method
dvisc	0.0000353	Pa×s	705.23	Joback Method
dvisc	0.0000473	Pa×s	657.06	Joback Method
dvisc	0.0000665	Pa×s	608.88	Joback Method
dvisc	0.0000991	Pa×s	560.70	Joback Method
dvisc	0.0001590	Pa×s	512.53	Joback Method
dvisc	0.0002816	Pa×s	464.35	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351915&Units=SI
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

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