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

Other names: Pentaethylene glycol monomethyl ether, acetate
3,6,9,12,15-Heptaoxahexadec-1-yl acetate

Inchi: InChI=1S/C13H26O7/c1-13(14)20-12-11-19-10-9-18-8-7-17-6-5-16-4-3-15-2/h3-12H2,1-2

InchiKey: CJUOGNAQUZKQPS-UHFFFAOYSA-N

Formula: C13H26O7

SMILES: COCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 294.34

Physical Properties

Property code	Value	Unit	Source
gf	-700.34	kJ/mol	Joback Method
hf	-1217.55	kJ/mol	Joback Method
hfus	38.15	kJ/mol	Joback Method
hvap	65.74	kJ/mol	Joback Method
log10ws	0.44		Crippen Method
logp	0.262		Crippen Method
mcvol	230.820	ml/mol	McGowan Method
pc	1593.62	kPa	Joback Method
rinpol	1938.40		NIST Webbook
rinpol	1938.40		NIST Webbook
tb	685.23	K	Joback Method
tc	855.68	K	Joback Method
tf	419.58	K	Joback Method
vc	0.877	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	659.38	J/mol×K	685.23	Joback Method
cpg	674.95	J/mol×K	713.64	Joback Method
cpg	689.85	J/mol×K	742.05	Joback Method
cpg	704.06	J/mol×K	770.45	Joback Method
cpg	717.55	J/mol×K	798.86	Joback Method
cpg	730.28	J/mol×K	827.27	Joback Method

cpg	742.24	J/mol×K	855.68	Joback Method
dvisc	0.0004899	Pa×s	419.58	Joback Method
dvisc	0.0002766	Pa×s	463.86	Joback Method
dvisc	0.0001725	Pa×s	508.13	Joback Method
dvisc	0.0001160	Pa×s	552.40	Joback Method
dvisc	0.0000828	Pa×s	596.68	Joback Method
dvisc	0.0000619	Pa×s	640.96	Joback Method
dvisc	0.0000480	Pa×s	685.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351913&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

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