2-(2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-eth
acetate

Inchi: InChI=1S/C17H34O7/c1-16(2)4-5-19-6-7-20-8-9-21-10-11-22-12-13-23-14-15-24-17(3)18

InchiKey: KZDQLVJGYFYXHT-UHFFFAOYSA-N

Formula: C17H34O7

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

Mol. weight [g/mol]: 350.45

Physical Properties

Property code	Value	Unit	Source
gf	-669.10	kJ/mol	Joback Method
hf	-1305.39	kJ/mol	Joback Method
hfus	44.99	kJ/mol	Joback Method
hvap	74.25	kJ/mol	Joback Method
log10ws	-1.00		Crippen Method
logp	1.679		Crippen Method
mcvol	287.180	ml/mol	McGowan Method
pc	1204.80	kPa	Joback Method
rinpol	2310.10		NIST Webbook
tb	776.31	K	Joback Method
tc	954.38	K	Joback Method
tf	449.66	K	Joback Method
vc	1.095	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	890.15	J/mol×K	776.31	Joback Method
cpg	967.88	J/mol×K	924.70	Joback Method
cpg	954.45	J/mol×K	895.02	Joback Method
cpg	939.94	J/mol×K	865.34	Joback Method
cpg	924.37	J/mol×K	835.67	Joback Method
cpg	907.77	J/mol×K	805.99	Joback Method
cpg	980.20	J/mol×K	954.38	Joback Method
dvisc	0.0000250	Pa×s	776.31	Joback Method
dvisc	0.0000333	Pa×s	721.87	Joback Method

dvisc	0.0000463	Pa×s	667.43	Joback Method
dvisc	0.0000684	Pa×s	612.98	Joback Method
dvisc	0.0001089	Pa×s	558.54	Joback Method
dvisc	0.0001918	Pa×s	504.10	Joback Method
dvisc	0.0003875	Pa×s	449.66	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=R188319&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