2-(2-(2-(2-(2-(2-(2-(2-Butoxy-ethoxy)-ethoxy)-ethox
acetate

Inchi: InChI=1S/C24H48O11/c1-3-4-5-26-6-7-27-8-9-28-10-11-29-12-13-30-14-15-31-16-17-32

InchiKey: AROMZUFYBQVJQC-UHFFFAOYSA-N

Formula: C24H48O11

SMILES: CCCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 512.63

Physical Properties

Property code	Value	Unit	Source
gf	-1027.72	kJ/mol	Joback Method
hf	-1973.47	kJ/mol	Joback Method
hfus	71.40	kJ/mol	Joback Method
hvap	99.86	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	1.499		Crippen Method
mcvol	409.290	ml/mol	McGowan Method
pc	759.32	kPa	Joback Method
rinpol	3375.70		NIST Webbook
tb	1026.59	K	Joback Method
tc	1291.76	K	Joback Method
tf	632.47	K	Joback Method
vc	1.565	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1443.31	J/mol×K	1026.59	Joback Method
cpg	1459.66	J/mol×K	1070.78	Joback Method
cpg	1471.88	J/mol×K	1114.98	Joback Method
cpg	1479.80	J/mol×K	1159.17	Joback Method
cpg	1483.28	J/mol×K	1203.37	Joback Method
cpg	1482.18	J/mol×K	1247.56	Joback Method
cpg	1476.35	J/mol×K	1291.76	Joback Method
dvisc	0.0000303	Pa×s	632.47	Joback Method
dvisc	0.0000166	Pa×s	698.16	Joback Method

dvisc	0.0000101	Pa×s	763.84	Joback Method
dvisc	0.0000066	Pa×s	829.53	Joback Method
dvisc	0.0000046	Pa×s	895.22	Joback Method
dvisc	0.0000034	Pa×s	960.90	Joback Method
dvisc	0.0000026	Pa×s	1026.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R187747&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