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

Other names: Decaethylene glycol monomethyl ether, acetate
3,6,9,12,15,18,21,24,27,30-Decaoxahentriacont-1-yl acetate

Inchi: InChI=1S/C23H46O12/c1-23(24)35-22-21-34-20-19-33-18-17-32-16-15-31-14-13-30-12-

InchiKey: VOVGSEQOJICDSM-UHFFFAOYSA-N

Formula: C23H46O12

SMILES: COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 514.60

Physical Properties

Property code	Value	Unit	Source
gf	-1141.14	kJ/mol	Joback Method
hf	-2085.05	kJ/mol	Joback Method
hfus	69.99	kJ/mol	Joback Method
hvap	100.05	kJ/mol	Joback Method
log10ws	0.81		Crippen Method
logp	0.345		Crippen Method
mcvol	401.070	ml/mol	McGowan Method
pc	793.49	kPa	Joback Method
rinpol	3288.20		NIST Webbook
rinpol	3288.20		NIST Webbook
tb	1026.13	K	Joback Method
tc	1290.17	K	Joback Method
tf	643.43	K	Joback Method
vc	1.528	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1409.28	J/mol×K	1026.13	Joback Method
cpg	1424.24	J/mol×K	1070.14	Joback Method
cpg	1434.90	J/mol×K	1114.14	Joback Method
cpg	1441.09	J/mol×K	1158.15	Joback Method
cpg	1442.62	J/mol×K	1202.16	Joback Method
cpg	1439.33	J/mol×K	1246.16	Joback Method

cpg	1431.02	J/mol×K	1290.17	Joback Method
dvisc	0.0000236	Pa×s	643.43	Joback Method
dvisc	0.0000133	Pa×s	707.21	Joback Method
dvisc	0.0000083	Pa×s	771.00	Joback Method
dvisc	0.0000055	Pa×s	834.78	Joback Method
dvisc	0.0000039	Pa×s	898.56	Joback Method
dvisc	0.0000029	Pa×s	962.35	Joback Method
dvisc	0.0000022	Pa×s	1026.13	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351898&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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