2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethox
acetate

Other names: Undecaethylene glycol monomethyl ether, acetate
3,6,9,12,15,18,21,24,27,30,33-Undecaoxatetratriacont-1-yl acetate

Inchi: InChI=1S/C25H50O13/c1-25(26)38-24-23-37-22-21-36-20-19-35-18-17-34-16-15-33-14-

InchiKey: KLAZIJJDWBLSNM-UHFFFAOYSA-N

Formula: C25H50O13

SMILES: COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 558.66

Physical Properties

Property code	Value	Unit	Source
gf	-1229.30	kJ/mol	Joback Method
hf	-2258.55	kJ/mol	Joback Method
hfus	76.36	kJ/mol	Joback Method
hvap	106.91	kJ/mol	Joback Method
log10ws	0.89		Crippen Method
logp	0.362		Crippen Method
mcvol	435.120	ml/mol	McGowan Method
pc	707.71	kPa	Joback Method
rinpol	3556.60		NIST Webbook
rinpol	3556.60		NIST Webbook
tb	1094.31	K	Joback Method
tc	1409.53	K	Joback Method
tf	688.20	K	Joback Method
vc	1.657	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1555.09	J/mol×K	1094.31	Joback Method
cpg	1565.17	J/mol×K	1146.85	Joback Method
cpg	1568.11	J/mol×K	1199.38	Joback Method
cpg	1563.58	J/mol×K	1251.92	Joback Method
cpg	1551.23	J/mol×K	1304.46	Joback Method
cpg	1530.76	J/mol×K	1356.99	Joback Method

cpg	1501.81	J/mol×K	1409.53	Joback Method
dvisc	0.0000122	Pa×s	688.20	Joback Method
dvisc	0.0000069	Pa×s	755.88	Joback Method
dvisc	0.0000043	Pa×s	823.57	Joback Method
dvisc	0.0000029	Pa×s	891.25	Joback Method
dvisc	0.0000020	Pa×s	958.94	Joback Method
dvisc	0.0000015	Pa×s	1026.62	Joback Method
dvisc	0.0000011	Pa×s	1094.31	Joback Method

Sources

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=U351919&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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