Batilol

Other names:	dl-Batyl alcohol
	Bathyl alcohol
	Batyl alcohol
	1,2-Propanediol, 3-(octadecyloxy)-
	«alpha»-Octadecylether of glycerol
	C18:0 Glyceryl 1-ether
	Glycerol monooctadecyl ether
	Glycerol 1-octadecyl ether
	Glyceryl-1-octadecyl ether
	Stearyl monoglyceride
	1-(Octadecyloxy)-2,3-dihydroxypropane
	1-O-Octadecylglycerol
	3-(Octadecyloxy)-1,2-propanediol
	Glycerine 1-monostearyl ether
	Monooctadecyl ether of glycerol
	Batylol
	NSC 284200
	Batil alcohol
Inchi:	InChI=1S/C21H44O3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-24-20-21(23)19-22
InchiKey:	OGBUMNBNEWYMNJ-UHFFFAOYSA-N
Formula:	C21H44O3
SMILES:	CCCCCCCCCCCCCCCCCCOCC(O)CO
Mol. weight [g/mol]:	344.57
CAS:	544-62-7

Physical Properties

Property code	Value	Unit	Source
gf	-255.14	kJ/mol	Joback Method
hf	-918.73	kJ/mol	Joback Method
hfus	55.99	kJ/mol	Joback Method
hvap	97.72	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	5.618		Crippen Method
mcvol	324.360	ml/mol	McGowan Method
pc	1068.66	kPa	Joback Method
rinpol	2608.70		NIST Webbook
rinpol	2608.70		NIST Webbook

tb	886.22	K	Joback Method
tc	1091.93	K	Joback Method
tf	455.30	K	Joback Method
vc	1.262	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1098.75	J/mol×K	886.22	Joback Method
cpg	1118.31	J/mol×K	920.51	Joback Method
cpg	1136.67	J/mol×K	954.79	Joback Method
cpg	1153.87	J/mol×K	989.08	Joback Method
cpg	1169.97	J/mol×K	1023.36	Joback Method
cpg	1185.02	J/mol×K	1057.65	Joback Method
cpg	1199.06	J/mol×K	1091.93	Joback Method
dvisc	0.0007152	Pa×s	455.30	Joback Method
dvisc	0.0001228	Pa×s	527.12	Joback Method
dvisc	0.0000322	Pa×s	598.94	Joback Method
dvisc	0.0000112	Pa×s	670.76	Joback Method
dvisc	0.0000048	Pa×s	742.58	Joback Method
dvisc	0.0000024	Pa×s	814.40	Joback Method
dvisc	0.0000013	Pa×s	886.22	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C544627&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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