Tetrahydrofurfuryl palmitoleate (tent.)

Inchi: InChI=1S/C22H40O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-19-22(23)24-20-21-17-15-16-18
InchiKey: XIMXXGSYXRPYEN-FPLPWBNLSA-N
Formula: C22H40O2
SMILES: CCCCCCC=CCCCCCCCC(=O)OCC1CCCC1
Mol. weight [g/mol]: 336.55

Physical Properties

Property code	Value	Unit	Source
gf	17.21	kJ/mol	Joback Method
hf	-564.51	kJ/mol	Joback Method
hfus	49.66	kJ/mol	Joback Method
hvap	73.94	kJ/mol	Joback Method
log10ws	-7.40		Crippen Method
logp	6.977		Crippen Method
mcvol	313.120	ml/mol	McGowan Method
pc	1073.57	kPa	Joback Method
rinpol	2480.00		NIST Webbook
rinpol	2480.00		NIST Webbook
rinpol	2480.00		NIST Webbook
tb	798.49	K	Joback Method
tc	987.35	K	Joback Method
tf	415.68	K	Joback Method
vc	1.212	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1000.76	J/mol×K	798.49	Joback Method
cpg	1093.12	J/mol×K	955.87	Joback Method
cpg	1076.71	J/mol×K	924.39	Joback Method
cpg	1059.32	J/mol×K	892.92	Joback Method
cpg	1040.90	J/mol×K	861.44	Joback Method
cpg	1021.40	J/mol×K	829.97	Joback Method
cpg	1108.59	J/mol×K	987.35	Joback Method

dvisc	0.0000714	Pa×s	798.49	Joback Method
dvisc	0.0000951	Pa×s	734.69	Joback Method
dvisc	0.0001338	Pa×s	670.89	Joback Method
dvisc	0.0002023	Pa×s	607.09	Joback Method
dvisc	0.0003369	Pa×s	543.28	Joback Method
dvisc	0.0006428	Pa×s	479.48	Joback Method
dvisc	0.0014952	Pa×s	415.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R307778&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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