

Fucitol permethylated

Other names:	L-Fucitol permethyl
Inchi:	InChI=1S/C11H24O5/c1-8(13-3)10(15-5)11(16-6)9(14-4)7-12-2/h8-11H,7H2,1-6H3
InchiKey:	BYHPANAHL MukFI-UHFFFAOYSA-N
Formula:	C11H24O5
SMILES:	COCC(OC)C(OC)C(OC)C(C)OC
Mol. weight [g/mol]:	236.31

Physical Properties

Property code	Value	Unit	Source
gf	-493.02	kJ/mol	Joback Method
hf	-952.59	kJ/mol	Joback Method
hfus	16.09	kJ/mol	Joback Method
hvap	50.58	kJ/mol	Joback Method
log10ws	-0.31		Crippen Method
logp	0.713		Crippen Method
mvol	195.200	ml/mol	McGowan Method
pc	1846.75	kPa	Joback Method
rinpol	1360.00		NIST Webbook
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tb	561.42	K	Joback Method
tc	734.67	K	Joback Method
tf	264.88	K	Joback Method
vc	0.718	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.52	J/mol×K	561.42	Joback Method
cpg	516.79	J/mol×K	590.29	Joback Method
cpg	532.55	J/mol×K	619.17	Joback Method
cpg	547.77	J/mol×K	648.04	Joback Method
cpg	562.44	J/mol×K	676.92	Joback Method
cpg	576.51	J/mol×K	705.79	Joback Method
cpg	589.99	J/mol×K	734.67	Joback Method

dvisc	0.0041952	Paxs	264.88	Joback Method
dvisc	0.0012003	Paxs	314.30	Joback Method
dvisc	0.0004825	Paxs	363.73	Joback Method
dvisc	0.0002412	Paxs	413.15	Joback Method
dvisc	0.0001399	Paxs	462.57	Joback Method
dvisc	0.0000901	Paxs	512.00	Joback Method
dvisc	0.0000627	Paxs	561.42	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R10315&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

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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