

2-Methoxyethyl arachidate

Inchi: InChI=1S/C23H46O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-23(24)26-22-2
InchiKey: VADYFVAOIWTXHN-UHFFFAOYSA-N
Formula: C23H46O3
SMILES: CCCCCCCCCCCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]: 370.61

Physical Properties

Property code	Value	Unit	Source
gf	-196.14	kJ/mol	Joback Method
hf	-895.07	kJ/mol	Joback Method
hfus	59.30	kJ/mol	Joback Method
hvap	78.36	kJ/mol	Joback Method
log10ws	-7.40		Crippen Method
logp	7.218		Crippen Method
mvol	348.240	ml/mol	McGowan Method
pc	866.58	kPa	Joback Method
rinpol	2581.00		NIST Webbook
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tb	824.35	K	Joback Method
tc	1009.26	K	Joback Method
tf	443.36	K	Joback Method
vc	1.365	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1127.50	J/molxK	824.35	Joback Method
cpg	1148.51	J/molxK	855.17	Joback Method
cpg	1168.35	J/molxK	885.99	Joback Method
cpg	1187.03	J/molxK	916.81	Joback Method
cpg	1204.60	J/molxK	947.63	Joback Method
cpg	1221.06	J/molxK	978.44	Joback Method
cpg	1236.46	J/molxK	1009.26	Joback Method
dvisc	0.0007960	Paxs	443.36	Joback Method

dvisc	0.0003443	Paxs	506.86	Joback Method
dvisc	0.0001794	Paxs	570.36	Joback Method
dvisc	0.0001066	Paxs	633.85	Joback Method
dvisc	0.0000696	Paxs	697.35	Joback Method
dvisc	0.0000488	Paxs	760.85	Joback Method
dvisc	0.0000361	Paxs	824.35	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=R540628&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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