

Succinic acid, dodec-2-en-1-yl 2-methoxyethyl ester

Inchi:	InChI=1S/C19H34O5/c1-3-4-5-6-7-8-9-10-11-12-15-23-18(20)13-14-19(21)24-17-16-22-2
InchiKey:	BXQYXJBVENZXKW-VAWYXSNFSA-N
Formula:	C19H34O5
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)OCCOC
Mol. weight [g/mol]:	342.47

Physical Properties

Property code	Value	Unit	Source
gf	-383.52	kJ/mol	Joback Method
hf	-940.09	kJ/mol	Joback Method
hfus	51.93	kJ/mol	Joback Method
hvap	78.57	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	4.196		Crippen Method
mcvol	295.020	ml/mol	McGowan Method
pc	1176.85	kPa	Joback Method
rinpol	2401.00		NIST Webbook
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tb	813.28	K	Joback Method
tc	999.58	K	Joback Method
tf	465.36	K	Joback Method
vc	1.145	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	914.87	J/molxK	813.28	Joback Method
cpg	990.19	J/molxK	968.53	Joback Method
cpg	977.08	J/molxK	937.48	Joback Method
cpg	963.00	J/molxK	906.43	Joback Method
cpg	947.95	J/molxK	875.38	Joback Method
cpg	931.91	J/molxK	844.33	Joback Method
cpg	1002.35	J/molxK	999.58	Joback Method
dvisc	0.0000401	Paxs	813.28	Joback Method

dvisc	0.0000529	Paxs	755.29	Joback Method
dvisc	0.0000730	Paxs	697.31	Joback Method
dvisc	0.0001070	Paxs	639.32	Joback Method
dvisc	0.0001691	Paxs	581.33	Joback Method
dvisc	0.0002958	Paxs	523.35	Joback Method
dvisc	0.0005948	Paxs	465.36	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=U390750&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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