

Succinic acid, dodec-2-en-1-yl 3-methoxyphenyl ester

Inchi:	InChI=1S/C23H34O5/c1-3-4-5-6-7-8-9-10-11-12-18-27-22(24)16-17-23(25)28-21-15-13-
InchiKey:	SSXOWKYJRAQXBD-VAWYXSNFSA-N
Formula:	C23H34O5
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)Oc1cccc(OC)c1
Mol. weight [g/mol]:	390.51

Physical Properties

Property code	Value	Unit	Source
gf	-247.06	kJ/mol	Joback Method
hf	-797.59	kJ/mol	Joback Method
hfus	55.94	kJ/mol	Joback Method
hvap	90.41	kJ/mol	Joback Method
log10ws	-6.48		Crippen Method
logp	5.621		Crippen Method
mvol	327.620	ml/mol	McGowan Method
pc	1123.81	kPa	Joback Method
rinpol	2946.00		NIST Webbook
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tb	936.46	K	Joback Method
tc	1148.00	K	Joback Method
tf	549.38	K	Joback Method
vc	1.262	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1059.82	J/molxK	936.46	Joback Method
cpg	1075.61	J/molxK	971.72	Joback Method
cpg	1090.07	J/molxK	1006.97	Joback Method
cpg	1103.24	J/molxK	1042.23	Joback Method
cpg	1115.16	J/molxK	1077.49	Joback Method
cpg	1125.86	J/molxK	1112.74	Joback Method
cpg	1135.37	J/molxK	1148.00	Joback Method
dvisc	0.0002765	Paxs	549.38	Joback Method

dvisc	0.0001473	Paxs	613.89	Joback Method
dvisc	0.0000884	Paxs	678.41	Joback Method
dvisc	0.0000580	Paxs	742.92	Joback Method
dvisc	0.0000407	Paxs	807.43	Joback Method
dvisc	0.0000301	Paxs	871.95	Joback Method
dvisc	0.0000232	Paxs	936.46	Joback Method

Sources

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=U390988&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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