Succinic acid, dodec-2-en-1-yl 2-methoxy-5-methylphenyl ester

Inchi: InChI=1S/C24H36O5/c1-4-5-6-7-8-9-10-11-12-13-18-28-23(25)16-17-24(26)29-22-19-20

InchiKey: MUXCHUFIFMSGES-OUKQBFOZSA-N

Formula: C24H36O5

SMILES: CCCCCCCCCC=CCOC(=O)CCC(=O)Oc1cc(C)ccc1OC

Mol. weight [g/mol]: 404.54

Physical Properties

Property code	Value	Unit	Source
gf	-248.27	kJ/mol	Joback Method
hf	-829.70	kJ/mol	Joback Method
hfus	58.14	kJ/mol	Joback Method
hvap	93.30	kJ/mol	Joback Method
log10ws	-6.96		Crippen Method
logp	5.929		Crippen Method
mcvol	341.710	ml/mol	McGowan Method
pc	1044.62	kPa	Joback Method
rinpol	2978.00		NIST Webbook
rinpol	2978.00		NIST Webbook
tb	964.32	K	Joback Method
tc	1180.83	K	Joback Method
tf	573.17	K	Joback Method
vc	1.317	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.15	J/mol×K	964.32	Joback Method
cpg	1185.65	J/mol×K	1144.74	Joback Method
cpg	1175.27	J/mol×K	1108.66	Joback Method
cpg	1163.56	J/mol×K	1072.57	Joback Method
cpg	1150.49	J/mol×K	1036.49	Joback Method
cpg	1136.03	J/mol×K	1000.40	Joback Method
cpg	1194.74	J/mol×K	1180.83	Joback Method
dvisc	0.0000204	Pa×s	964.32	Joback Method

dvisc	0.0000263	Pa×s	899.13	Joback Method
dvisc	0.0000351	Pa×s	833.94	Joback Method
dvisc	0.0000493	Pa×s	768.74	Joback Method
dvisc	0.0000737	Pa×s	703.55	Joback Method
dvisc	0.0001196	Pa×s	638.36	Joback Method
dvisc	0.0002167	Pa×s	573.17	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390969&Units=SI

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