Succinic acid, dec-2-yl 2-methoxy-5-methylphenyl ester

Inchi: InChI=1S/C22H34O5/c1-5-6-7-8-9-10-11-18(3)26-21(23)14-15-22(24)27-20-16-17(2)12-1

InchiKey: ICAUJRXVFNMPPM-UHFFFAOYSA-N

Formula: C22H34O5

SMILES: CCCCCCCCC(C)OC(=O)CCC(=O)Oc1cc(C)ccc1OC

Mol. weight [g/mol]: 378.50

Physical Properties

Property code	Value	Unit	Source
gf	-347.77	kJ/mol	Joback Method
hf	-910.92	kJ/mol	Joback Method
hfus	49.24	kJ/mol	Joback Method
hvap	88.50	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	5.372		Crippen Method
mcvol	317.830	ml/mol	McGowan Method
pc	1152.22	kPa	Joback Method
rinpol	2651.00		NIST Webbook
rinpol	2651.00		NIST Webbook
tb	913.96	K	Joback Method
tc	1121.81	K	Joback Method
tf	540.71	K	Joback Method
vc	1.220	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1026.80	J/mol×K	913.96	Joback Method
cpg	1092.63	J/mol×K	1087.17	Joback Method
cpg	1082.21	J/mol×K	1052.53	Joback Method
cpg	1070.42	J/mol×K	1017.89	Joback Method
cpg	1057.26	J/mol×K	983.24	Joback Method
cpg	1042.73	J/mol×K	948.60	Joback Method
cpg	1101.71	J/mol×K	1121.81	Joback Method
dvisc	0.0000286	Pa×s	913.96	Joback Method

dvisc	0.0000370	Pa×s	851.75	Joback Method
dvisc	0.0000497	Pa×s	789.54	Joback Method
dvisc	0.0000704	Pa×s	727.34	Joback Method
dvisc	0.0001064	Pa×s	665.13	Joback Method
dvisc	0.0001750	Pa×s	602.92	Joback Method
dvisc	0.0003228	Pa×s	540.71	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=U390965&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