Succinic acid, dec-2-yl 3-methoxyphenyl ester

Inchi: InChI=1S/C21H32O5/c1-4-5-6-7-8-9-11-17(2)25-20(22)14-15-21(23)26-19-13-10-12-18(1
InchiKey: KBQZSXAFBDCWFL-UHFFFAOYSA-N
Formula: C21H32O5
SMILES: CCCCCCCCC(C)OC(=O)CCC(=O)Oc1cccc(OC)c1
Mol. weight [g/mol]: 364.48

Physical Properties

Property code	Value	Unit	Source
gf	-346.56	kJ/mol	Joback Method
hf	-878.81	kJ/mol	Joback Method
hfus	47.04	kJ/mol	Joback Method
hvap	85.61	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	5.063		Crippen Method
mcvol	303.740	ml/mol	McGowan Method
pc	1244.21	kPa	Joback Method
rinpol	2625.00		NIST Webbook
rinpol	2625.00		NIST Webbook
tb	886.10	K	Joback Method
tc	1090.63	K	Joback Method
tf	516.92	K	Joback Method
vc	1.163	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.23	J/mol×K	886.10	Joback Method
cpg	1033.79	J/mol×K	1056.54	Joback Method
cpg	1023.03	J/mol×K	1022.46	Joback Method
cpg	1011.00	J/mol×K	988.37	Joback Method
cpg	997.70	J/mol×K	954.28	Joback Method
cpg	983.12	J/mol×K	920.19	Joback Method
cpg	1043.30	J/mol×K	1090.63	Joback Method
dvisc	0.0000325	Pa×s	886.10	Joback Method

dvisc	0.0000425	Pa×s	824.57	Joback Method
dvisc	0.0000579	Pa×s	763.04	Joback Method
dvisc	0.0000833	Pa×s	701.51	Joback Method
dvisc	0.0001286	Pa×s	639.98	Joback Method
dvisc	0.0002177	Pa×s	578.45	Joback Method
dvisc	0.0004176	Pa×s	516.92	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=U390985&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