Succinic acid, naphth-2-ylmethyl 4-chloro-2-methoxyphenyl ester

Inchi: InChI=1S/C22H19ClO5/c1-26-20-13-18(23)8-9-19(20)28-22(25)11-10-21(24)27-14-15-6-

InchiKey: GFIMVROKICWILT-UHFFFAOYSA-N

Formula: C22H19ClO5

SMILES: COc1cc(Cl)ccc1OC(=O)CCC(=O)OCc1ccc2ccccc2c1

Mol. weight [g/mol]: 398.84

Physical Properties

Property code	Value	Unit	Source
gf	-147.83	kJ/mol	Joback Method
hf	-505.25	kJ/mol	Joback Method
hfus	47.63	kJ/mol	Joback Method
hvap	97.85	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	4.931		Crippen Method
mcvol	286.850	ml/mol	McGowan Method
pc	1693.51	kPa	Joback Method
rinpol	3367.00		NIST Webbook
rinpol	3367.00		NIST Webbook
tb	1002.47	K	Joback Method
tc	1244.75	K	Joback Method
tf	657.27	K	Joback Method
vc	1.089	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	859.86	J/mol×K	1002.47	Joback Method
cpg	899.42	J/mol×K	1204.37	Joback Method
cpg	893.91	J/mol×K	1163.99	Joback Method
cpg	887.25	J/mol×K	1123.61	Joback Method
cpg	879.39	J/mol×K	1083.23	Joback Method
cpg	870.28	J/mol×K	1042.85	Joback Method
cpg	903.84	J/mol×K	1244.75	Joback Method
dvisc	0.0000595	Pa×s	1002.47	Joback Method

dvisc	0.0000715	Pa×s	944.94	Joback Method
dvisc	0.0000880	Pa×s	887.40	Joback Method
dvisc	0.0001115	Pa×s	829.87	Joback Method
dvisc	0.0001463	Pa×s	772.34	Joback Method
dvisc	0.0002006	Pa×s	714.80	Joback Method
dvisc	0.0002907	Pa×s	657.27	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390948&Units=SI
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

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