Succinic acid, naphth-2-ylmethyl 3-methoxyphenyl ester

Inchi: InChI=1S/C22H20O5/c1-25-19-7-4-8-20(14-19)27-22(24)12-11-21(23)26-15-16-9-10-17-

InchiKey: UCEJROVWBKZFKM-UHFFFAOYSA-N

Formula: C22H20O5

SMILES: COc1cccc(OC(=O)CCC(=O)OCc2ccc3ccccc3c2)c1

Mol. weight [g/mol]: 364.39

Physical Properties

Property code	Value	Unit	Source
gf	-126.27	kJ/mol	Joback Method
hf	-478.04	kJ/mol	Joback Method
hfus	43.82	kJ/mol	Joback Method
hvap	92.80	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.277		Crippen Method
mcvol	274.610	ml/mol	McGowan Method
pc	1768.38	kPa	Joback Method
rinpol	3263.00		NIST Webbook
rinpol	3263.00		NIST Webbook
tb	960.06	K	Joback Method
tc	1197.79	K	Joback Method
tf	614.83	K	Joback Method
vc	1.040	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	841.95	J/mol×K	960.06	Joback Method
cpg	889.00	J/mol×K	1158.16	Joback Method
cpg	881.98	J/mol×K	1118.54	Joback Method
cpg	873.82	J/mol×K	1078.92	Joback Method
cpg	864.47	J/mol×K	1039.30	Joback Method
cpg	853.86	J/mol×K	999.68	Joback Method
cpg	894.94	J/mol×K	1197.79	Joback Method
dvisc	0.0000670	Pa×s	960.06	Joback Method

dvisc	0.0000812	Pa×s	902.52	Joback Method
dvisc	0.0001011	Pa×s	844.98	Joback Method
dvisc	0.0001300	Pa×s	787.44	Joback Method
dvisc	0.0001740	Pa×s	729.91	Joback Method
dvisc	0.0002446	Pa×s	672.37	Joback Method
dvisc	0.0003667	Pa×s	614.83	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=U390990&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