Succinic acid, naphth-2-ylmethyl cis-4-methylcyclohexyl ester

Inchi: InChI=1S/C22H26O4/c1-16-6-10-20(11-7-16)26-22(24)13-12-21(23)25-15-17-8-9-18-4-2

InchiKey: JGSCGESOTFPLKS-UHFFFAOYSA-N

Formula: C22H26O4

SMILES: CC1CCC(OC(=O)CCC(=O)OCc2ccc3ccccc3c2)CC1

Mol. weight [g/mol]: 354.44

Physical Properties

Property code	Value	Unit	Source
gf	-107.31	kJ/mol	Joback Method
hf	-536.90	kJ/mol	Joback Method
hfus	41.89	kJ/mol	Joback Method
hvap	87.58	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	4.785		Crippen Method
mcvol	281.640	ml/mol	McGowan Method
pc	1593.62	kPa	Joback Method
rinpol	2990.00		NIST Webbook
rinpol	2990.00		NIST Webbook
tb	920.86	K	Joback Method
tc	1154.06	K	Joback Method
tf	556.80	K	Joback Method
vc	1.062	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	918.51	J/mol×K	920.86	Joback Method
cpg	982.13	J/mol×K	1115.20	Joback Method
cpg	972.19	J/mol×K	1076.33	Joback Method
cpg	960.93	J/mol×K	1037.46	Joback Method
cpg	948.27	J/mol×K	998.59	Joback Method
cpg	934.15	J/mol×K	959.73	Joback Method
cpg	990.81	J/mol×K	1154.06	Joback Method
dvisc	0.0001142	Pa×s	920.86	Joback Method

dvisc	0.0001402	Pa×s	860.18	Joback Method
dvisc	0.0001776	Pa×s	799.51	Joback Method
dvisc	0.0002339	Pa×s	738.83	Joback Method
dvisc	0.0003236	Pa×s	678.15	Joback Method
dvisc	0.0004771	Pa×s	617.48	Joback Method
dvisc	0.0007657	Pa×s	556.80	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=U390064&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