Succinic acid, cis-4-methylcyclohexyl trans-4-methylcyclohexyl ester

Inchi: InChI=1S/C18H30O4/c1-13-3-7-15(8-4-13)21-17(19)11-12-18(20)22-16-9-5-14(2)6-10-16

InchiKey: GUEFKTFJTJMFQU-UHFFFAOYSA-N

Formula: C18H30O4

SMILES: CC1CCC(OC(=O)CCC(=O)OC2CCC(C)CC2)CC1

Mol. weight [g/mol]: 310.43

Physical Properties

Property code	Value	Unit	Source
gf	-333.68	kJ/mol	Joback Method
hf	-836.49	kJ/mol	Joback Method
hfus	33.76	kJ/mol	Joback Method
hvap	74.21	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.010		Crippen Method
mcvol	257.640	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
rinpol	2228.00		NIST Webbook
rinpol	2228.00		NIST Webbook
tb	793.58	K	Joback Method
tc	1010.82	K	Joback Method
tf	443.22	K	Joback Method
vc	0.956	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.45	J/mol×K	793.58	Joback Method
cpg	937.37	J/mol×K	974.61	Joback Method
cpg	922.96	J/mol×K	938.41	Joback Method
cpg	906.88	J/mol×K	902.20	Joback Method
cpg	889.10	J/mol×K	865.99	Joback Method
cpg	869.63	J/mol×K	829.79	Joback Method
cpg	950.10	J/mol×K	1010.82	Joback Method
dvisc	0.0001224	Pa×s	793.58	Joback Method

dvisc	0.0001572	Pa×s	735.19	Joback Method
dvisc	0.0002106	Pa×s	676.79	Joback Method
dvisc	0.0002983	Pa×s	618.40	Joback Method
dvisc	0.0004543	Pa×s	560.01	Joback Method
dvisc	0.0007632	Pa×s	501.61	Joback Method
dvisc	0.0014697	Pa×s	443.22	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390077&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

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