

Succinic acid, cyclohexylmethyl cis-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C21H36O4/c1-21(2,3)17-9-11-18(12-10-17)25-20(23)14-13-19(22)24-15-16-7-
InchiKey:	QPYDTLBLTZOHGN-UHFFFAOYSA-N
Formula:	C21H36O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCC(=O)OCC2CCCCC2)CC1
Mol. weight [g/mol]:	352.51

Physical Properties

Property code	Value	Unit	Source
gf	-297.87	kJ/mol	Joback Method
hf	-886.82	kJ/mol	Joback Method
hfus	33.05	kJ/mol	Joback Method
hvap	79.91	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.038		Crippen Method
mvol	299.910	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinpol	2541.00		NIST Webbook
rinpol	2541.00		NIST Webbook
tb	863.66	K	Joback Method
tc	1083.59	K	Joback Method
tf	483.69	K	Joback Method
vc	1.113	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.74	J/molxK	863.66	Joback Method
cpg	1113.79	J/molxK	1046.93	Joback Method
cpg	1100.17	J/molxK	1010.28	Joback Method
cpg	1084.90	J/molxK	973.62	Joback Method
cpg	1067.94	J/molxK	936.97	Joback Method
cpg	1049.24	J/molxK	900.31	Joback Method
cpg	1125.83	J/molxK	1083.59	Joback Method
dvisc	0.0000500	Paxs	863.66	Joback Method

dvisc	0.0000674	Paxs	800.33	Joback Method
dvisc	0.0000957	Paxs	737.00	Joback Method
dvisc	0.0001452	Paxs	673.68	Joback Method
dvisc	0.0002401	Paxs	610.35	Joback Method
dvisc	0.0004462	Paxs	547.02	Joback Method
dvisc	0.0009749	Paxs	483.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390191&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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