Succinic acid, cyclohexylmethyl 2-isopropoxyphenyl ester

Inchi: InChI=1S/C20H28O5/c1-15(2)24-17-10-6-7-11-18(17)25-20(22)13-12-19(21)23-14-16-8-
InchiKey: VVCBVOFOZWGGOY-UHFFFAOYSA-N
Formula: C20H28O5
SMILES: CC(C)Oc1ccccc1OC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]: 348.43

Physical Properties

Property code	Value	Unit	Source
gf	-330.53	kJ/mol	Joback Method
hf	-803.85	kJ/mol	Joback Method
hfus	36.28	kJ/mol	Joback Method
hvap	83.81	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.283		Crippen Method
mcvol	278.790	ml/mol	McGowan Method
pc	1557.35	kPa	Joback Method
rinpol	2553.00		NIST Webbook
rinpol	2553.00		NIST Webbook
tb	882.77	K	Joback Method
tc	1104.02	K	Joback Method
tf	513.03	K	Joback Method
vc	1.040	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	902.51	J/mol×K	882.77	Joback Method
cpg	968.00	J/mol×K	1067.15	Joback Method
cpg	958.06	J/mol×K	1030.27	Joback Method
cpg	946.56	J/mol×K	993.40	Joback Method
cpg	933.48	J/mol×K	956.52	Joback Method
cpg	918.80	J/mol×K	919.65	Joback Method
cpg	976.38	J/mol×K	1104.02	Joback Method
dvisc	0.0000388	Pa×s	882.77	Joback Method

dvisc	0.0000509	Pa×s	821.15	Joback Method
dvisc	0.0000699	Pa×s	759.52	Joback Method
dvisc	0.0001013	Pa×s	697.90	Joback Method
dvisc	0.0001579	Pa×s	636.28	Joback Method
dvisc	0.0002706	Pa×s	574.65	Joback Method
dvisc	0.0005278	Pa×s	513.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389792&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