Succinic acid, 3-methylbut-2-yl 3-phenoxybenzyl ester

Inchi: InChI=1S/C22H26O5/c1-16(2)17(3)26-22(24)13-12-21(23)25-15-18-8-7-11-20(14-18)27-

InchiKey: BKXKJDNQIDXKHE-UHFFFAOYSA-N

Formula: C22H26O5

SMILES: CC(C)C(C)OC(=O)CCC(=O)OCc1cccc(Oc2ccccc2)c1

Mol. weight [g/mol]: 370.44

Physical Properties

Property code	Value	Unit	Source
gf	-228.17	kJ/mol	Joback Method
hf	-668.20	kJ/mol	Joback Method
hfus	40.15	kJ/mol	Joback Method
hvap	89.73	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.890		Crippen Method
mcvol	294.070	ml/mol	McGowan Method
pc	1488.44	kPa	Joback Method
rinpol	2656.00		NIST Webbook
tb	935.22	K	Joback Method
tc	1161.43	K	Joback Method
tf	539.61	K	Joback Method
vc	1.105	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	926.30	J/mol×K	935.22	Joback Method
cpg	939.97	J/mol×K	972.92	Joback Method
cpg	952.13	J/mol×K	1010.62	Joback Method
cpg	962.80	J/mol×K	1048.33	Joback Method
cpg	972.02	J/mol×K	1086.03	Joback Method
cpg	979.81	J/mol×K	1123.73	Joback Method
cpg	986.21	J/mol×K	1161.43	Joback Method
dvisc	0.0003588	Pa×s	539.61	Joback Method
dvisc	0.0001832	Pa×s	605.55	Joback Method

dvisc	0.0001067	Pa×s	671.48	Joback Method
dvisc	0.0000685	Pa×s	737.41	Joback Method
dvisc	0.0000473	Pa×s	803.35	Joback Method
dvisc	0.0000345	Pa×s	869.29	Joback Method
dvisc	0.0000263	Pa×s	935.22	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390365&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