Succinic acid, 2-biphenyl 4-isopropylphenyl ester

Inchi: InChI=1S/C25H24O4/c1-18(2)19-12-14-21(15-13-19)28-24(26)16-17-25(27)29-23-11-7-6

InchiKey: HJIPHGJEEOEUCV-UHFFFAOYSA-N

Formula: C25H24O4

SMILES: CC(C)c1ccc(OC(=O)CCC(=O)Oc2ccccc2-c2ccccc2)cc1

Mol. weight [g/mol]: 388.46

Physical Properties

Property code	Value	Unit	Source
gf	7.31	kJ/mol	Joback Method
hf	-367.56	kJ/mol	Joback Method
hfus	43.90	kJ/mol	Joback Method
hvap	97.32	kJ/mol	Joback Method
log10ws	-7.54		Crippen Method
logp	5.768		Crippen Method
mcvol	306.710	ml/mol	McGowan Method
pc	1531.86	kPa	Joback Method
rinpol	3074.00		NIST Webbook
rinpol	3074.00		NIST Webbook
tb	1013.54	K	Joback Method
tc	1260.35	K	Joback Method
tf	605.13	K	Joback Method
vc	1.153	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.29	J/mol×K	1013.54	Joback Method
cpg	979.21	J/mol×K	1054.68	Joback Method
cpg	989.59	J/mol×K	1095.81	Joback Method
cpg	998.50	J/mol×K	1136.95	Joback Method
cpg	1006.04	J/mol×K	1178.08	Joback Method
cpg	1012.26	J/mol×K	1219.22	Joback Method
cpg	1017.25	J/mol×K	1260.35	Joback Method
dvisc	0.0002618	Pa×s	605.13	Joback Method

dvisc	0.0001475	Pa×s	673.20	Joback Method
dvisc	0.0000923	Pa×s	741.27	Joback Method
dvisc	0.0000625	Pa×s	809.34	Joback Method
dvisc	0.0000449	Pa×s	877.40	Joback Method
dvisc	0.0000339	Pa×s	945.47	Joback Method
dvisc	0.0000266	Pa×s	1013.54	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=U360723&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