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

Inchi: InChI=1S/C22H26O4/c1-16(2)17(3)25-20(23)14-15-21(24)26-22(18-10-6-4-7-11-18)19-1
InchiKey: NKWSYGOWFQPFDT-UHFFFAOYSA-N
Formula: C22H26O4
SMILES: CC(C)C(C)OC(=O)CCC(=O)OC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 354.44

Physical Properties

Property code	Value	Unit	Source
gf	-115.98	kJ/mol	Joback Method
hf	-529.79	kJ/mol	Joback Method
hfus	35.82	kJ/mol	Joback Method
hvap	86.27	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	4.687		Crippen Method
mcvol	288.200	ml/mol	McGowan Method
pc	1535.46	kPa	Joback Method
rinpol	2518.00		NIST Webbook
rinpol	2518.00		NIST Webbook
tb	907.38	K	Joback Method
tc	1135.48	K	Joback Method
tf	489.86	K	Joback Method
vc	1.081	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	900.38	J/mol×K	907.38	Joback Method
cpg	915.18	J/mol×K	945.40	Joback Method
cpg	928.54	J/mol×K	983.41	Joback Method
cpg	940.52	J/mol×K	1021.43	Joback Method
cpg	951.18	J/mol×K	1059.45	Joback Method
cpg	960.58	J/mol×K	1097.46	Joback Method
cpg	968.77	J/mol×K	1135.48	Joback Method
dvisc	0.0007036	Pa×s	489.86	Joback Method

dvisc	0.0003045	Pa×s	559.45	Joback Method
dvisc	0.0001586	Pa×s	629.03	Joback Method
dvisc	0.0000941	Pa×s	698.62	Joback Method
dvisc	0.0000613	Pa×s	768.21	Joback Method
dvisc	0.0000429	Pa×s	837.79	Joback Method
dvisc	0.0000317	Pa×s	907.38	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390165&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