Succinic acid, cyclohexylmethyl diphenylmethyl ester

Inchi: InChI=1S/C24H28O4/c25-22(27-18-19-10-4-1-5-11-19)16-17-23(26)28-24(20-12-6-2-7-1

InchiKey: KXEJAOQHCWROBX-UHFFFAOYSA-N

Formula: C24H28O4

SMILES: O=C(CCC(=O)OC(c1ccccc1)c1ccccc1)OCC1CCCCC1

Mol. weight [g/mol]: 380.48

Physical Properties

Property code	Value	Unit	Source
gf	-69.81	kJ/mol	Joback Method
hf	-506.19	kJ/mol	Joback Method
hfus	39.88	kJ/mol	Joback Method
hvap	91.92	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	5.223		Crippen Method
mcvol	305.520	ml/mol	McGowan Method
pc	1531.86	kPa	Joback Method
rinpol	2957.00		NIST Webbook
rinpol	2957.00		NIST Webbook
tb	973.57	K	Joback Method
tc	1215.93	K	Joback Method
tf	549.78	K	Joback Method
vc	1.139	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.37	J/mol×K	973.57	Joback Method
cpg	1025.95	J/mol×K	1013.96	Joback Method
cpg	1038.77	J/mol×K	1054.36	Joback Method
cpg	1049.91	J/mol×K	1094.75	Joback Method
cpg	1059.45	J/mol×K	1135.15	Joback Method
cpg	1067.48	J/mol×K	1175.54	Joback Method
cpg	1074.07	J/mol×K	1215.93	Joback Method
dvisc	0.0004778	Pa×s	549.78	Joback Method

dvisc	0.0002298	Pa×s	620.41	Joback Method
dvisc	0.0001283	Pa×s	691.04	Joback Method
dvisc	0.0000798	Pa×s	761.67	Joback Method
dvisc	0.0000538	Pa×s	832.31	Joback Method
dvisc	0.0000386	Pa×s	902.94	Joback Method
dvisc	0.0000291	Pa×s	973.57	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390172&Units=SI

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