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

Inchi: InChI=1S/C24H30O5/c1-3-4-6-10-19(2)28-24(26)16-15-23(25)27-18-20-11-9-14-22(17-2
InchiKey: SHESIPRWXVHYOU-UHFFFAOYSA-N
Formula: C24H30O5
SMILES: CCCCCC(C)OC(=O)CCC(=O)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]: 398.49

Physical Properties

Property code	Value	Unit	Source
gf	-208.89	kJ/mol	Joback Method
hf	-704.20	kJ/mol	Joback Method
hfus	48.85	kJ/mol	Joback Method
hvap	94.57	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	5.814		Crippen Method
mcvol	322.250	ml/mol	McGowan Method
pc	1282.83	kPa	Joback Method
rinpol	2842.00		NIST Webbook
rinpol	2842.00		NIST Webbook
tb	981.42	K	Joback Method
tc	1207.31	K	Joback Method
tf	577.15	K	Joback Method
vc	1.224	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1044.62	J/mol×K	981.42	Joback Method
cpg	1058.15	J/mol×K	1019.07	Joback Method
cpg	1070.11	J/mol×K	1056.72	Joback Method
cpg	1080.55	J/mol×K	1094.36	Joback Method
cpg	1089.51	J/mol×K	1132.01	Joback Method
cpg	1097.02	J/mol×K	1169.66	Joback Method
cpg	1103.11	J/mol×K	1207.31	Joback Method
dvisc	0.0002575	Pa×s	577.15	Joback Method

dvisc	0.0001370	Pa×s	644.53	Joback Method
dvisc	0.0000822	Pa×s	711.91	Joback Method
dvisc	0.0000538	Pa×s	779.28	Joback Method
dvisc	0.0000377	Pa×s	846.66	Joback Method
dvisc	0.0000279	Pa×s	914.04	Joback Method
dvisc	0.0000214	Pa×s	981.42	Joback Method

Sources

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=U390370&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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