

Succinic acid, hept-2-yl diphenylmethyl ester

Inchi: InChI=1S/C24H30O4/c1-3-4-7-12-19(2)27-22(25)17-18-23(26)28-24(20-13-8-5-9-14-20)2
InchiKey: XBOPTAZEVBVRIT-UHFFFAOYSA-N
Formula: C24H30O4
SMILES: CCCCCC(C)OC(=O)CCC(=O)OC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 382.49

Physical Properties

Property code	Value	Unit	Source
gf	-96.70	kJ/mol	Joback Method
hf	-565.79	kJ/mol	Joback Method
hfus	44.53	kJ/mol	Joback Method
hvap	91.11	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	5.611		Crippen Method
mvol	316.380	ml/mol	McGowan Method
pc	1320.39	kPa	Joback Method
rinpol	2722.00		NIST Webbook
rinpol	2722.00		NIST Webbook
tb	953.58	K	Joback Method
tc	1178.60	K	Joback Method
tf	527.40	K	Joback Method
vc	1.200	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1018.62	J/mol×K	953.58	Joback Method
cpg	1033.30	J/mol×K	991.08	Joback Method
cpg	1046.55	J/mol×K	1028.59	Joback Method
cpg	1058.45	J/mol×K	1066.09	Joback Method
cpg	1069.04	J/mol×K	1103.59	Joback Method
cpg	1078.40	J/mol×K	1141.10	Joback Method
cpg	1086.58	J/mol×K	1178.60	Joback Method
dvisc	0.0004803	Paxs	527.40	Joback Method

dvisc	0.0002210	Paxs	598.43	Joback Method
dvisc	0.0001199	Paxs	669.46	Joback Method
dvisc	0.0000731	Paxs	740.49	Joback Method
dvisc	0.0000487	Paxs	811.52	Joback Method
dvisc	0.0000346	Paxs	882.55	Joback Method
dvisc	0.0000258	Paxs	953.58	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=U390169&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

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