

Succinic acid, dodec-2-en-1-yl diphenylmethyl ester

Inchi:	InChI=1S/C29H38O4/c1-2-3-4-5-6-7-8-9-10-17-24-32-27(30)22-23-28(31)33-29(25-18-13
InchiKey:	FKFITBHKOIFCK-LICLKQGHSA-N
Formula:	C29H38O4
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)OC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	450.61

Physical Properties

Property code	Value	Unit	Source
gf	28.06	kJ/mol	Joback Method
hf	-546.49	kJ/mol	Joback Method
hfus	61.20	kJ/mol	Joback Method
hvap	102.58	kJ/mol	Joback Method
log10ws	-8.31		Crippen Method
logp	7.340		Crippen Method
mvol	382.530	ml/mol	McGowan Method
pc	983.93	kPa	Joback Method
rinpol	3340.00		NIST Webbook
rinpol	3340.00		NIST Webbook
tb	1072.58	K	Joback Method
tc	1313.14	K	Joback Method
tf	593.67	K	Joback Method
vc	1.466	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1294.79	J/molxK	1072.58	Joback Method
cpg	1309.97	J/molxK	1112.67	Joback Method
cpg	1323.78	J/molxK	1152.77	Joback Method
cpg	1336.33	J/molxK	1192.86	Joback Method
cpg	1347.74	J/molxK	1232.96	Joback Method
cpg	1358.12	J/molxK	1273.05	Joback Method
cpg	1367.59	J/molxK	1313.14	Joback Method
dvisc	0.0002107	Paxs	593.67	Joback Method

dvisc	0.0000975	Paxs	673.49	Joback Method
dvisc	0.0000532	Paxs	753.31	Joback Method
dvisc	0.0000325	Paxs	833.12	Joback Method
dvisc	0.0000217	Paxs	912.94	Joback Method
dvisc	0.0000155	Paxs	992.76	Joback Method
dvisc	0.0000116	Paxs	1072.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390175&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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