

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

Inchi: InChI=1S/C27H36O5/c1-3-4-5-6-7-9-13-22(2)31-27(29)19-18-26(28)30-21-23-14-12-17-2
InchiKey: VORHSEJOTQJKNJ-UHFFFAOYSA-N
Formula: C27H36O5
SMILES: CCCCCCCC(C)OC(=O)CCC(=O)OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]: 440.57

Physical Properties

Property code	Value	Unit	Source
gf	-183.63	kJ/mol	Joback Method
hf	-766.12	kJ/mol	Joback Method
hfus	56.62	kJ/mol	Joback Method
hvap	101.24	kJ/mol	Joback Method
log10ws	-7.68		Crippen Method
logp	6.985		Crippen Method
mvol	364.520	ml/mol	McGowan Method
pc	1054.14	kPa	Joback Method
rinpol	3133.00		NIST Webbook
rinpol	3133.00		NIST Webbook
tb	1050.06	K	Joback Method
tc	1285.62	K	Joback Method
tf	610.96	K	Joback Method
vc	1.391	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1226.04	J/molxK	1050.06	Joback Method
cpg	1276.07	J/molxK	1246.36	Joback Method
cpg	1269.37	J/molxK	1207.10	Joback Method
cpg	1261.07	J/molxK	1167.84	Joback Method
cpg	1251.12	J/molxK	1128.58	Joback Method
cpg	1239.46	J/molxK	1089.32	Joback Method
cpg	1281.23	J/molxK	1285.62	Joback Method
dvisc	0.0000135	Paxs	1050.06	Joback Method

dvisc	0.0000177	Paxs	976.88	Joback Method
dvisc	0.0000242	Paxs	903.69	Joback Method
dvisc	0.0000349	Paxs	830.51	Joback Method
dvisc	0.0000542	Paxs	757.33	Joback Method
dvisc	0.0000922	Paxs	684.14	Joback Method
dvisc	0.0001782	Paxs	610.96	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390376&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
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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