

Succinic acid, decyl 2-methoxy-4-chlorobenzyl ester

Inchi:	InChI=1S/C22H33ClO5/c1-3-4-5-6-7-8-9-10-15-27-21(24)13-14-22(25)28-17-18-11-12-19
InchiKey:	TYGKXTJGRNYOAS-UHFFFAOYSA-N
Formula:	C22H33ClO5
SMILES:	CCCCCCCCCOC(=O)CCC(=O)OCc1ccc(Cl)cc1OC
Mol. weight [g/mol]:	412.95

Physical Properties

Property code	Value	Unit	Source
gf	-357.26	kJ/mol	Joback Method
hf	-921.38	kJ/mol	Joback Method
hfus	56.96	kJ/mol	Joback Method
hvap	93.27	kJ/mol	Joback Method
log10ws	-6.74		Crippen Method
logp	5.856		Crippen Method
mcvol	330.070	ml/mol	McGowan Method
pc	1117.81	kPa	Joback Method
rinpol	2933.00		NIST Webbook
rinpol	2933.00		NIST Webbook
tb	951.83	K	Joback Method
tc	1166.07	K	Joback Method
tf	585.63	K	Joback Method
vc	1.274	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1052.14	J/molxK	951.83	Joback Method
cpg	1066.77	J/molxK	987.54	Joback Method
cpg	1079.95	J/molxK	1023.24	Joback Method
cpg	1091.72	J/molxK	1058.95	Joback Method
cpg	1102.07	J/molxK	1094.66	Joback Method
cpg	1111.04	J/molxK	1130.36	Joback Method
cpg	1118.62	J/molxK	1166.07	Joback Method
dvisc	0.0002391	Paxs	585.63	Joback Method

dvisc	0.0001395	Paxs	646.66	Joback Method
dvisc	0.0000893	Paxs	707.70	Joback Method
dvisc	0.0000614	Paxs	768.73	Joback Method
dvisc	0.0000446	Paxs	829.76	Joback Method
dvisc	0.0000338	Paxs	890.80	Joback Method
dvisc	0.0000266	Paxs	951.83	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U380854&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

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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