

Succinic acid, cyclohexylmethyl (2-chlorocyclohexyl)methyl ester

Inchi: InChI=1S/C18H29ClO4/c19-16-9-5-4-8-15(16)13-23-18(21)11-10-17(20)22-12-14-6-2-1-3
InchiKey: MVEPLTRJRVNMCL-UHFFFAOYSA-N
Formula: C18H29ClO4
SMILES: O=C(CCC(=O)OCC1CCCCC1Cl)OCC1CCCCC1
Mol. weight [g/mol]: 344.87

Physical Properties

Property code	Value	Unit	Source
gf	-337.90	kJ/mol	Joback Method
hf	-831.89	kJ/mol	Joback Method
hfus	36.89	kJ/mol	Joback Method
hvap	78.91	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	4.231		Crippen Method
mvol	269.880	ml/mol	McGowan Method
pc	1582.23	kPa	Joback Method
rinpol	2643.00		NIST Webbook
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tb	835.68	K	Joback Method
tc	1056.30	K	Joback Method
tf	477.38	K	Joback Method
vc	1.006	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	876.44	J/molxK	835.68	Joback Method
cpg	895.38	J/molxK	872.45	Joback Method
cpg	912.62	J/molxK	909.22	Joback Method
cpg	928.19	J/molxK	945.99	Joback Method
cpg	942.11	J/molxK	982.76	Joback Method
cpg	954.42	J/molxK	1019.53	Joback Method
cpg	965.11	J/molxK	1056.30	Joback Method
dvisc	0.0011528	Paxs	477.38	Joback Method

dvisc	0.0005848	Paxs	537.10	Joback Method
dvisc	0.0003398	Paxs	596.81	Joback Method
dvisc	0.0002180	Paxs	656.53	Joback Method
dvisc	0.0001505	Paxs	716.25	Joback Method
dvisc	0.0001101	Paxs	775.96	Joback Method
dvisc	0.0000842	Paxs	835.68	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391401&Units=SI

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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