

Succinic acid, cyclohexylmethyl 4-chloro-2-methylphenyl ester

Inchi:	InChI=1S/C18H23ClO4/c1-13-11-15(19)7-8-16(13)23-18(21)10-9-17(20)22-12-14-5-3-2-4
InchiKey:	COYZAPMCOMSLBQ-UHFFFAOYSA-N
Formula:	C18H23ClO4
SMILES:	Cc1cc(Cl)ccc1OC(=O)CCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	338.83

Physical Properties

Property code	Value	Unit	Source
gf	-261.49	kJ/mol	Joback Method
hf	-652.28	kJ/mol	Joback Method
hfus	37.24	kJ/mol	Joback Method
hvap	82.39	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	4.458		Crippen Method
mvol	256.980	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinpol	2498.00		NIST Webbook
rinpol	2498.00		NIST Webbook
tb	857.44	K	Joback Method
tc	1084.55	K	Joback Method
tf	525.70	K	Joback Method
vc	0.966	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	781.43	J/molxK	857.44	Joback Method
cpg	843.87	J/molxK	1046.70	Joback Method
cpg	834.20	J/molxK	1008.85	Joback Method
cpg	823.15	J/molxK	971.00	Joback Method
cpg	810.68	J/molxK	933.14	Joback Method
cpg	796.79	J/molxK	895.29	Joback Method
cpg	852.18	J/molxK	1084.55	Joback Method
dvisc	0.0000660	Paxs	857.44	Joback Method

dvisc	0.0000838	Paxs	802.15	Joback Method
dvisc	0.0001102	Paxs	746.86	Joback Method
dvisc	0.0001514	Paxs	691.57	Joback Method
dvisc	0.0002199	Paxs	636.28	Joback Method
dvisc	0.0003428	Paxs	580.99	Joback Method
dvisc	0.0005867	Paxs	525.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390295&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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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