

Succinic acid, 4-chloro-3-methylphenyl 1-cyclopentylethyl ester

Inchi:	InChI=1S/C18H23ClO4/c1-12-11-15(7-8-16(12)19)23-18(21)10-9-17(20)22-13(2)14-5-3-4
InchiKey:	YCCUDPQBQGXKL-UHFFFAOYSA-N
Formula:	C18H23ClO4
SMILES:	<chem>Cc1cc(OC(=O)CCC(=O)OC(C)C2CCCC2)ccc1Cl</chem>
Mol. weight [g/mol]:	338.83

Physical Properties

Property code	Value	Unit	Source
gf	-251.83	kJ/mol	Joback Method
hf	-651.40	kJ/mol	Joback Method
hfus	35.82	kJ/mol	Joback Method
hvap	81.83	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.456		Crippen Method
mvol	256.980	ml/mol	McGowan Method
pc	1733.22	kPa	Joback Method
rinpol	2585.00		NIST Webbook
rinpol	2585.00		NIST Webbook
tb	852.73	K	Joback Method
tc	1077.89	K	Joback Method
tf	514.22	K	Joback Method
vc	0.968	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	778.26	J/molxK	852.73	Joback Method
cpg	793.52	J/molxK	890.26	Joback Method
cpg	807.42	J/molxK	927.78	Joback Method
cpg	820.01	J/molxK	965.31	Joback Method
cpg	831.31	J/molxK	1002.84	Joback Method
cpg	841.35	J/molxK	1040.36	Joback Method
cpg	850.17	J/molxK	1077.89	Joback Method
dvisc	0.0007531	Paxs	514.22	Joback Method

dvisc	0.0004402	Paxs	570.64	Joback Method
dvisc	0.0002834	Paxs	627.06	Joback Method
dvisc	0.0001962	Paxs	683.48	Joback Method
dvisc	0.0001437	Paxs	739.89	Joback Method
dvisc	0.0001100	Paxs	796.31	Joback Method
dvisc	0.0000872	Paxs	852.73	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=U391414&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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