Succinic acid, 4-chloro-3-methylphenyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C16H19ClO5/c1-11-9-12(4-5-14(11)17)22-16(19)7-6-15(18)21-10-13-3-2-8-20-

InchiKey: KNGJOBUHBAKVSN-UHFFFAOYSA-N

Formula: C16H19ClO5

SMILES: Cc1cc(OC(=O)CCC(=O)OCC2CCCO2)ccc1Cl

Mol. weight [g/mol]: 326.77

Physical Properties

Property code	Value	Unit	Source
gf	-352.35	kJ/mol	Joback Method
hf	-736.84	kJ/mol	Joback Method
hfus	42.14	kJ/mol	Joback Method
hvap	82.27	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.056		Crippen Method
mcvol	234.670	ml/mol	McGowan Method
pc	2016.32	kPa	Joback Method
rinpol	2593.00		NIST Webbook
rinpol	2593.00		NIST Webbook
tb	834.36	K	Joback Method
tc	1059.92	K	Joback Method
tf	533.25	K	Joback Method
vc	0.882	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	694.20	J/mol×K	834.36	Joback Method
cpg	708.13	J/mol×K	871.95	Joback Method
cpg	720.80	J/mol×K	909.55	Joback Method
cpg	732.25	J/mol×K	947.14	Joback Method
cpg	742.49	J/mol×K	984.74	Joback Method
cpg	751.54	J/mol×K	1022.33	Joback Method
cpg	759.42	J/mol×K	1059.92	Joback Method
dvisc	0.0007159	Pa×s	533.25	Joback Method

dvisc	0.0004562	Pa×s	583.43	Joback Method
dvisc	0.0003122	Pa×s	633.62	Joback Method
dvisc	0.0002259	Pa×s	683.80	Joback Method
dvisc	0.0001708	Pa×s	733.99	Joback Method
dvisc	0.0001339	Pa×s	784.17	Joback Method
dvisc	0.0001081	Pa×s	834.36	Joback Method

Sources

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=U390724&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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