Succinic acid, 3-chlorophenyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C15H17ClO5/c16-11-3-1-4-12(9-11)21-15(18)7-6-14(17)20-10-13-5-2-8-19-13/

InchiKey: WPGQWRPZWJOQNS-UHFFFAOYSA-N

Formula: C15H17ClO5

SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1)OCC1CCCO1

Mol. weight [g/mol]: 312.75

Physical Properties

Property code	Value	Unit	Source
gf	-351.14	kJ/mol	Joback Method
hf	-704.73	kJ/mol	Joback Method
hfus	39.94	kJ/mol	Joback Method
hvap	79.39	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	2.748		Crippen Method
mcvol	220.580	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	2390.00		NIST Webbook
rinpol	2390.00		NIST Webbook
tb	806.50	K	Joback Method
tc	1034.20	K	Joback Method
tf	509.46	K	Joback Method
vc	0.827	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	639.61	J/mol×K	806.50	Joback Method
cpg	696.92	J/mol×K	996.25	Joback Method
cpg	687.82	J/mol×K	958.30	Joback Method
cpg	677.56	J/mol×K	920.35	Joback Method
cpg	666.13	J/mol×K	882.40	Joback Method
cpg	653.49	J/mol×K	844.45	Joback Method
cpg	704.89	J/mol×K	1034.20	Joback Method
dvisc	0.0001223	Pa×s	806.50	Joback Method

dvisc	0.0001529	Pa×s	756.99	Joback Method
dvisc	0.0001971	Pa×s	707.49	Joback Method
dvisc	0.0002641	Pa×s	657.98	Joback Method
dvisc	0.0003711	Pa×s	608.47	Joback Method
dvisc	0.0005538	Pa×s	558.97	Joback Method
dvisc	0.0008934	Pa×s	509.46	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390722&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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