Succinic acid, 2,3-dichlorophenyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C15H16Cl2O5/c16-11-4-1-5-12(15(11)17)22-14(19)7-6-13(18)21-9-10-3-2-8-20

InchiKey: UIUSXIBBRUIYEM-UHFFFAOYSA-N

Formula: C15H16Cl2O5

SMILES: O=C(CCC(=O)Oc1cccc(Cl)c1Cl)OCC1CCCO1

Mol. weight [g/mol]: 347.19

Physical Properties

Property code	Value	Unit	Source
gf	-372.70	kJ/mol	Joback Method
hf	-731.94	kJ/mol	Joback Method
hfus	43.75	kJ/mol	Joback Method
hvap	84.43	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.401		Crippen Method
mcvol	232.820	ml/mol	McGowan Method
pc	2127.56	kPa	Joback Method
rinpol	2616.00		NIST Webbook
rinpol	2616.00		NIST Webbook
tb	848.91	K	Joback Method
tc	1080.13	K	Joback Method
tf	551.90	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.37	J/mol×K	848.91	Joback Method
cpg	673.76	J/mol×K	887.45	Joback Method
cpg	684.92	J/mol×K	925.98	Joback Method
cpg	694.87	J/mol×K	964.52	Joback Method
cpg	703.64	J/mol×K	1003.05	Joback Method
cpg	711.24	J/mol×K	1041.59	Joback Method
cpg	717.70	J/mol×K	1080.13	Joback Method
dvisc	0.0006664	Pa×s	551.90	Joback Method

dvisc	0.0004343	Pa×s	601.40	Joback Method
dvisc	0.0003021	Pa×s	650.90	Joback Method
dvisc	0.0002212	Pa×s	700.40	Joback Method
dvisc	0.0001688	Pa×s	749.91	Joback Method
dvisc	0.0001331	Pa×s	799.41	Joback Method
dvisc	0.0001080	Pa×s	848.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390725&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

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