Succinic acid, 4-chloro-3-methylphenyl 2-ethoxyethyl ester

Inchi: InChI=1S/C15H19ClO5/c1-3-19-8-9-20-14(17)6-7-15(18)21-12-4-5-13(16)11(2)10-12/h4-

InchiKey: XIOZSGLPUVHMMA-UHFFFAOYSA-N

Formula: C15H19ClO5

SMILES: CCOCCOC(=O)CCC(=O)Oc1ccc(Cl)c(C)c1

Mol. weight [g/mol]: 314.76

Physical Properties

Property code	Value	Unit	Source
gf	-416.20	kJ/mol	Joback Method
hf	-776.90	kJ/mol	Joback Method
hfus	38.83	kJ/mol	Joback Method
hvap	77.69	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	2.914		Crippen Method
mcvol	231.440	ml/mol	McGowan Method
pc	1859.51	kPa	Joback Method
rinpol	2263.00		NIST Webbook
rinpol	2263.00		NIST Webbook
tb	791.67	K	Joback Method
tc	998.75	K	Joback Method
tf	506.74	K	Joback Method
vc	0.882	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.71	J/mol×K	791.67	Joback Method
cpg	658.94	J/mol×K	826.18	Joback Method
cpg	671.19	J/mol×K	860.70	Joback Method
cpg	682.43	J/mol×K	895.21	Joback Method
cpg	692.67	J/mol×K	929.73	Joback Method
cpg	701.90	J/mol×K	964.24	Joback Method
cpg	710.12	J/mol×K	998.75	Joback Method
dvisc	0.0004861	Pa×s	506.74	Joback Method

dvisc	0.0003088	Pa×s	554.23	Joback Method
dvisc	0.0002107	Pa×s	601.72	Joback Method
dvisc	0.0001520	Pa×s	649.20	Joback Method
dvisc	0.0001147	Pa×s	696.69	Joback Method
dvisc	0.0000897	Pa×s	744.18	Joback Method
dvisc	0.0000723	Pa×s	791.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390670&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