Succinic acid, 8-chlorooctyl 2-methoxyethyl ester

Inchi: InChI=1S/C15H27ClO5/c1-19-12-13-21-15(18)9-8-14(17)20-11-7-5-3-2-4-6-10-16/h2-13H

InchiKey: UPWRFKVHGKTSBE-UHFFFAOYSA-N

Formula: C15H27ClO5

SMILES: COCCOC(=O)CCC(=O)OCCCCCCCCCCl

Mol. weight [g/mol]: 322.82

Physical Properties

Property code	Value	Unit	Source
gf	-509.35	kJ/mol	Joback Method
hf	-990.49	kJ/mol	Joback Method
hfus	45.56	kJ/mol	Joback Method
hvap	74.09	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	3.079		Crippen Method
mcvol	255.200	ml/mol	McGowan Method
pc	1456.79	kPa	Joback Method
rinpol	2302.00		NIST Webbook
tb	755.03	K	Joback Method
tc	936.94	K	Joback Method
tf	455.28	K	Joback Method
vc	0.991	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.12	J/mol×K	755.03	Joback Method
cpg	804.18	J/mol×K	906.62	Joback Method
cpg	792.45	J/mol×K	876.31	Joback Method
cpg	779.88	J/mol×K	845.99	Joback Method
cpg	766.47	J/mol×K	815.67	Joback Method
cpg	752.21	J/mol×K	785.35	Joback Method
cpg	815.07	J/mol×K	936.94	Joback Method
dvisc	0.0000706	Pa×s	755.03	Joback Method
dvisc	0.0000915	Pa×s	705.07	Joback Method

dvisc	0.0001232	Pa×s	655.11	Joback Method
dvisc	0.0001743	Pa×s	605.15	Joback Method
dvisc	0.0002624	Pa×s	555.20	Joback Method
dvisc	0.0004284	Pa×s	505.24	Joback Method
dvisc	0.0007790	Pa×s	455.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390748&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