Succinic acid, 2-methylphenyl 2-methoxyethyl ester

Inchi: InChI=1S/C14H18O5/c1-11-5-3-4-6-12(11)19-14(16)8-7-13(15)18-10-9-17-2/h3-6H,7-10H

InchiKey: XWMWDQKVLOQNPC-UHFFFAOYSA-N

Formula: C14H18O5

SMILES: COCCOC(=O)CCC(=O)Oc1ccccc1C

Mol. weight [g/mol]: 266.29

Physical Properties

Property code	Value	Unit	Source
gf	-403.06	kJ/mol	Joback Method
hf	-729.05	kJ/mol	Joback Method
hfus	32.43	kJ/mol	Joback Method
hvap	70.42	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.870		Crippen Method
mcvol	205.110	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	2003.00		NIST Webbook
tb	726.38	K	Joback Method
tc	930.82	K	Joback Method
tf	453.03	K	Joback Method
vc	0.777	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.63	J/mol×K	726.38	Joback Method
cpg	580.70	J/mol×K	760.45	Joback Method
cpg	593.86	J/mol×K	794.53	Joback Method
cpg	606.11	J/mol×K	828.60	Joback Method
cpg	617.43	J/mol×K	862.68	Joback Method
cpg	627.82	J/mol×K	896.75	Joback Method
cpg	637.28	J/mol×K	930.82	Joback Method
dvisc	0.0007156	Pa×s	453.03	Joback Method
dvisc	0.0004349	Pa×s	498.59	Joback Method

dvisc	0.0002873	Pa×s	544.15	Joback Method
dvisc	0.0002023	Pa×s	589.71	Joback Method
dvisc	0.0001498	Pa×s	635.26	Joback Method
dvisc	0.0001155	Pa×s	680.82	Joback Method
dvisc	0.0000920	Pa×s	726.38	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=U357532&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

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