Succinic acid, 3,5-dimethylphenyl 2-methoxyethyl ester

Inchi: InChI=1S/C15H20O5/c1-11-8-12(2)10-13(9-11)20-15(17)5-4-14(16)19-7-6-18-3/h8-10H,4
InchiKey: PKFZAKXEWBDWPA-UHFFFAOYSA-N
Formula: C15H20O5
SMILES: COCCOC(=O)CCC(=O)Oc1cc(C)cc(C)c1
Mol. weight [g/mol]: 280.32

Physical Properties

Property code	Value	Unit	Source
gf	-404.27	kJ/mol	Joback Method
hf	-761.16	kJ/mol	Joback Method
hfus	34.63	kJ/mol	Joback Method
hvap	73.31	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.179		Crippen Method
mcvol	219.200	ml/mol	McGowan Method
pc	1920.30	kPa	Joback Method
rinpol	2098.00		NIST Webbook
rinpol	2098.00		NIST Webbook
tb	754.24	K	Joback Method
tc	957.56	K	Joback Method
tf	476.82	K	Joback Method
vc	0.834	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.00	J/mol×K	754.24	Joback Method
cpg	634.33	J/mol×K	788.13	Joback Method
cpg	647.72	J/mol×K	822.01	Joback Method
cpg	660.15	J/mol×K	855.90	Joback Method
cpg	671.62	J/mol×K	889.79	Joback Method
cpg	682.11	J/mol×K	923.67	Joback Method
cpg	691.62	J/mol×K	957.56	Joback Method
dvisc	0.0005654	Pa×s	476.82	Joback Method

dvisc	0.0003549	Pa×s	523.06	Joback Method
dvisc	0.0002402	Pa×s	569.29	Joback Method
dvisc	0.0001725	Pa×s	615.53	Joback Method
dvisc	0.0001297	Pa×s	661.77	Joback Method
dvisc	0.0001012	Pa×s	708.00	Joback Method
dvisc	0.0000814	Pa×s	754.24	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=U360726&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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