Succinic acid, phenyl 2-methoxyethyl ester

Inchi: InChI=1S/C13H16O5/c1-16-9-10-17-12(14)7-8-13(15)18-11-5-3-2-4-6-11/h2-6H,7-10H2,
InchiKey: WWVZHSKHYBQNJR-UHFFFAOYSA-N
Formula: C13H16O5
SMILES: COCCOC(=O)CCC(=O)Oc1ccccc1
Mol. weight [g/mol]: 252.26

Physical Properties

Property code	Value	Unit	Source
gf	-401.85	kJ/mol	Joback Method
hf	-696.94	kJ/mol	Joback Method
hfus	30.23	kJ/mol	Joback Method
hvap	67.53	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.562		Crippen Method
mcvol	191.020	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
rinpol	1923.00		NIST Webbook
tb	698.52	K	Joback Method
tc	904.53	K	Joback Method
tf	429.24	K	Joback Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	514.51	J/mol×K	698.52	Joback Method
cpg	574.50	J/mol×K	870.20	Joback Method
cpg	564.28	J/mol×K	835.86	Joback Method
cpg	553.17	J/mol×K	801.53	Joback Method
cpg	541.17	J/mol×K	767.19	Joback Method
cpg	528.28	J/mol×K	732.86	Joback Method
cpg	583.82	J/mol×K	904.53	Joback Method
dvisc	0.0001043	Pa×s	698.52	Joback Method
dvisc	0.0001323	Pa×s	653.64	Joback Method

dvisc	0.0001740	Pa×s	608.76	Joback Method
dvisc	0.0002390	Pa×s	563.88	Joback Method
dvisc	0.0003467	Pa×s	519.00	Joback Method
dvisc	0.0005397	Pa×s	474.12	Joback Method
dvisc	0.0009217	Pa×s	429.24	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=U357986&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