Succinic acid, ethyl 2-tertbutyl-6-methylphenyl ester

Inchi: InChI=1S/C17H24O4/c1-6-20-14(18)10-11-15(19)21-16-12(2)8-7-9-13(16)17(3,4)5/h7-9H

InchiKey: VWVUCNYMGRFTJX-UHFFFAOYSA-N

Formula: C17H24O4

SMILES: CCOC(=O)CCC(=O)Oc1c(C)cccc1C(C)(C)C

Mol. weight [g/mol]: 292.37

Physical Properties

Property code	Value	Unit	Source
gf	-279.59	kJ/mol	Joback Method
hf	-678.97	kJ/mol	Joback Method
hfus	31.21	kJ/mol	Joback Method
hvap	74.05	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.541		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1682.41	kPa	Joback Method
rinpol	1991.00		NIST Webbook
rinpol	1991.00		NIST Webbook
tb	774.35	K	Joback Method
tc	983.43	K	Joback Method
tf	479.55	K	Joback Method
vc	0.916	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	705.40	J/mol×K	774.35	Joback Method
cpg	773.05	J/mol×K	948.59	Joback Method
cpg	761.55	J/mol×K	913.74	Joback Method
cpg	749.06	J/mol×K	878.89	Joback Method
cpg	735.56	J/mol×K	844.04	Joback Method
cpg	721.02	J/mol×K	809.20	Joback Method
cpg	783.59	J/mol×K	983.43	Joback Method
dvisc	0.0000670	Pa×s	774.35	Joback Method

dvisc	0.0000858	Pa×s	725.22	Joback Method
dvisc	0.0001138	Pa×s	676.08	Joback Method
dvisc	0.0001578	Pa×s	626.95	Joback Method
dvisc	0.0002313	Pa×s	577.82	Joback Method
dvisc	0.0003639	Pa×s	528.68	Joback Method
dvisc	0.0006285	Pa×s	479.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U349635&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