Succinic acid, di(3-methoxyphenyl) ester

Inchi: InChI=1S/C18H18O6/c1-21-13-5-3-7-15(11-13)23-17(19)9-10-18(20)24-16-8-4-6-14(12-1
InchiKey: RPTBLSLYWUSFOS-UHFFFAOYSA-N
Formula: C18H18O6
SMILES: COc1cccc(OC(=O)CCC(=O)Oc2cccc(OC)c2)c1
Mol. weight [g/mol]: 330.33

Physical Properties

Property code	Value	Unit	Source
gf	-371.60	kJ/mol	Joback Method
hf	-718.77	kJ/mol	Joback Method
hfus	37.63	kJ/mol	Joback Method
hvap	84.67	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	2.995		Crippen Method
mcvol	243.580	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpol	2729.00		NIST Webbook
rinpol	2729.00		NIST Webbook
tb	871.98	K	Joback Method
tc	1098.00	K	Joback Method
tf	559.28	K	Joback Method
vc	0.911	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	720.00	J/mol×K	871.98	Joback Method
cpg	732.53	J/mol×K	909.65	Joback Method
cpg	743.67	J/mol×K	947.32	Joback Method
cpg	753.39	J/mol×K	984.99	Joback Method
cpg	761.70	J/mol×K	1022.66	Joback Method
cpg	768.57	J/mol×K	1060.33	Joback Method
cpg	774.01	J/mol×K	1098.00	Joback Method
dvisc	0.0002817	Pa×s	559.28	Joback Method

dvisc	0.0001797	Pa×s	611.40	Joback Method
dvisc	0.0001230	Pa×s	663.51	Joback Method
dvisc	0.0000890	Pa×s	715.63	Joback Method
dvisc	0.0000673	Pa×s	767.75	Joback Method
dvisc	0.0000527	Pa×s	819.86	Joback Method
dvisc	0.0000425	Pa×s	871.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390991&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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