Succinic acid, di(2-methoxy-5-methylphenyl) ester

Inchi: InChI=1S/C20H22O6/c1-13-5-7-15(23-3)17(11-13)25-19(21)9-10-20(22)26-18-12-14(2)6

InchiKey: OJBSTVWETMRDHY-UHFFFAOYSA-N

Formula: C20H22O6

SMILES: COc1ccc(C)cc1OC(=O)CCC(=O)Oc1cc(C)ccc1OC

Mol. weight [g/mol]: 358.39

Physical Properties

Property code	Value	Unit	Source
gf	-374.02	kJ/mol	Joback Method
hf	-782.99	kJ/mol	Joback Method
hfus	42.03	kJ/mol	Joback Method
hvap	90.45	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	3.612		Crippen Method
mcvol	271.760	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
rinpol	2796.00		NIST Webbook
rinpol	2796.00		NIST Webbook
tb	927.70	K	Joback Method
tc	1152.87	K	Joback Method
tf	606.86	K	Joback Method
vc	1.024	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.72	J/mol×K	927.70	Joback Method
cpg	843.99	J/mol×K	965.23	Joback Method
cpg	854.71	J/mol×K	1002.76	Joback Method
cpg	863.86	J/mol×K	1040.29	Joback Method
cpg	871.44	J/mol×K	1077.82	Joback Method
cpg	877.41	J/mol×K	1115.35	Joback Method
cpg	881.77	J/mol×K	1152.87	Joback Method
dvisc	0.0001887	Pa×s	606.86	Joback Method

dvisc	0.0001258	Pa×s	660.33	Joback Method
dvisc	0.0000892	Pa×s	713.81	Joback Method
dvisc	0.0000663	Pa×s	767.28	Joback Method
dvisc	0.0000512	Pa×s	820.75	Joback Method
dvisc	0.0000409	Pa×s	874.23	Joback Method
dvisc	0.0000334	Pa×s	927.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390972&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