Succinic acid, di(3-methoxybenzyl) ester

Inchi: InChI=1S/C20H22O6/c1-23-17-7-3-5-15(11-17)13-25-19(21)9-10-20(22)26-14-16-6-4-8-1
InchiKey: YLRVVCIQQJIXJS-UHFFFAOYSA-N
Formula: C20H22O6
SMILES: COc1cccc(COC(=O)CCC(=O)OCc2cccc(OC)c2)c1
Mol. weight [g/mol]: 358.39

Physical Properties

Property code	Value	Unit	Source
gf	-354.76	kJ/mol	Joback Method
hf	-760.05	kJ/mol	Joback Method
hfus	42.81	kJ/mol	Joback Method
hvap	89.12	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	3.271		Crippen Method
mcvol	271.760	ml/mol	McGowan Method
pc	1668.70	kPa	Joback Method
rinpol	2851.00		NIST Webbook
rinpol	2851.00		NIST Webbook
tb	917.74	K	Joback Method
tc	1141.32	K	Joback Method
tf	581.82	K	Joback Method
vc	1.024	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	834.35	J/mol×K	917.74	Joback Method
cpg	882.11	J/mol×K	1104.06	Joback Method
cpg	875.56	J/mol×K	1066.79	Joback Method
cpg	867.50	J/mol×K	1029.53	Joback Method
cpg	857.95	J/mol×K	992.27	Joback Method
cpg	846.90	J/mol×K	955.00	Joback Method
cpg	887.16	J/mol×K	1141.32	Joback Method
dvisc	0.0000321	Pa×s	917.74	Joback Method

dvisc	0.0000401	Pa×s	861.75	Joback Method
dvisc	0.0000516	Pa×s	805.77	Joback Method
dvisc	0.0000691	Pa×s	749.78	Joback Method
dvisc	0.0000968	Pa×s	693.79	Joback Method
dvisc	0.0001441	Pa×s	637.81	Joback Method
dvisc	0.0002313	Pa×s	581.82	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381266&Units=SI

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