Sebacic acid, 2,6-dimethoxyphenyl ethyl ester

Inchi: InChI=1S/C20H30O6/c1-4-25-18(21)14-9-7-5-6-8-10-15-19(22)26-20-16(23-2)12-11-13-1
InchiKey: MFPLOSIVIOHSFB-UHFFFAOYSA-N
Formula: C20H30O6
SMILES: CCOC(=O)CCCCCCCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]: 366.45

Physical Properties

Property code	Value	Unit	Source
gf	-467.17	kJ/mol	Joback Method
hf	-996.58	kJ/mol	Joback Method
hfus	48.77	kJ/mol	Joback Method
hvap	86.85	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.293		Crippen Method
mcvol	295.520	ml/mol	McGowan Method
pc	1294.86	kPa	Joback Method
rinpol	2732.00		NIST Webbook
tb	891.06	K	Joback Method
tc	1095.64	K	Joback Method
tf	555.40	K	Joback Method
vc	1.131	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	935.42	J/mol×K	891.06	Joback Method
cpg	996.85	J/mol×K	1061.54	Joback Method
cpg	987.28	J/mol×K	1027.45	Joback Method
cpg	976.34	J/mol×K	993.35	Joback Method
cpg	964.04	J/mol×K	959.25	Joback Method
cpg	950.40	J/mol×K	925.16	Joback Method
cpg	1005.05	J/mol×K	1095.64	Joback Method
dvisc	0.0000312	Pa×s	891.06	Joback Method
dvisc	0.0000394	Pa×s	835.12	Joback Method

dvisc	0.0000515	Pa×s	779.17	Joback Method
dvisc	0.0000700	Pa×s	723.23	Joback Method
dvisc	0.0001004	Pa×s	667.29	Joback Method
dvisc	0.0001537	Pa×s	611.34	Joback Method
dvisc	0.0002563	Pa×s	555.40	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U354748&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