Glutaric acid, 2,6-dimethoxyphenyl hexyl ester

Inchi: InChI=1S/C19H28O6/c1-4-5-6-7-14-24-17(20)12-9-13-18(21)25-19-15(22-2)10-8-11-16(1
InchiKey: WXXPTBVCJKIIIQ-UHFFFAOYSA-N
Formula: C19H28O6
SMILES: CCCCCCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]: 352.42

Physical Properties

Property code	Value	Unit	Source
gf	-475.59	kJ/mol	Joback Method
hf	-975.94	kJ/mol	Joback Method
hfus	46.18	kJ/mol	Joback Method
hvap	84.62	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	3.903		Crippen Method
mcvol	281.430	ml/mol	McGowan Method
pc	1389.18	kPa	Joback Method
rinpol	2604.00		NIST Webbook
tb	868.18	K	Joback Method
tc	1070.93	K	Joback Method
tf	544.13	K	Joback Method
vc	1.075	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	876.26	J/mol×K	868.18	Joback Method
cpg	891.10	J/mol×K	901.97	Joback Method
cpg	904.68	J/mol×K	935.76	Joback Method
cpg	917.00	J/mol×K	969.56	Joback Method
cpg	928.02	J/mol×K	1003.35	Joback Method
cpg	937.76	J/mol×K	1037.14	Joback Method
cpg	946.19	J/mol×K	1070.93	Joback Method
dvisc	0.0002841	Pa×s	544.13	Joback Method
dvisc	0.0001723	Pa×s	598.14	Joback Method

dvisc	0.0001136	Pa×s	652.15	Joback Method
dvisc	0.0000798	Pa×s	706.15	Joback Method
dvisc	0.0000589	Pa×s	760.16	Joback Method
dvisc	0.0000453	Pa×s	814.17	Joback Method
dvisc	0.0000360	Pa×s	868.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358709&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