Glutaric acid, di(4-methoxyphenyl) ester

Inchi: InChI=1S/C19H20O6/c1-22-14-6-10-16(11-7-14)24-18(20)4-3-5-19(21)25-17-12-8-15(23
InchiKey: URNPJOHPEQQDBO-UHFFFAOYSA-N
Formula: C19H20O6
SMILES: COc1ccc(OC(=O)CCCC(=O)Oc2ccc(OC)cc2)cc1
Mol. weight [g/mol]: 344.36

Physical Properties

Property code	Value	Unit	Source
gf	-363.18	kJ/mol	Joback Method
hf	-739.41	kJ/mol	Joback Method
hfus	40.22	kJ/mol	Joback Method
hvap	86.90	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.385		Crippen Method
mcvol	257.670	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinpol	2947.00		NIST Webbook
rinpol	2947.00		NIST Webbook
tb	894.86	K	Joback Method
tc	1119.29	K	Joback Method
tf	570.55	K	Joback Method
vc	0.968	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	776.84	J/mol×K	894.86	Joback Method
cpg	825.13	J/mol×K	1081.89	Joback Method
cpg	818.39	J/mol×K	1044.48	Joback Method
cpg	810.18	J/mol×K	1007.08	Joback Method
cpg	800.52	J/mol×K	969.67	Joback Method
cpg	789.40	J/mol×K	932.27	Joback Method
cpg	830.40	J/mol×K	1119.29	Joback Method
dvisc	0.0000370	Pa×s	894.86	Joback Method

dvisc	0.0000460	Pa×s	840.81	Joback Method
dvisc	0.0000590	Pa×s	786.76	Joback Method
dvisc	0.0000785	Pa×s	732.71	Joback Method
dvisc	0.0001093	Pa×s	678.65	Joback Method
dvisc	0.0001612	Pa×s	624.60	Joback Method
dvisc	0.0002558	Pa×s	570.55	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358751&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