Glutaric acid, di(2-methoxyphenyl) ester

Inchi: InChI=1S/C19H20O6/c1-22-14-8-3-5-10-16(14)24-18(20)12-7-13-19(21)25-17-11-6-4-9-1
InchiKey: FNDIQUFWURXKEV-UHFFFAOYSA-N
Formula: C19H20O6
SMILES: COc1ccccc1OC(=O)CCCC(=O)Oc1ccccc1OC
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	2778.00		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

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=U358674&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