Glutaric acid, ethyl 4-methoxyphenyl ester

Inchi:	InChI=1S/C14H18O5/c1-3-18-13(15)5-4-6-14(16)19-12-9-7-11(17-2)8-10-12/h7-10H,3-6H
InchiKey:	VIBJSROZXQUPDR-UHFFFAOYSA-N
Formula:	C14H18O5
SMILES:	CCOC(=O)CCCC(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]:	266.29

Physical Properties

Property code	Value	Unit	Source
gf	-403.06	kJ/mol	Joback Method
hf	-729.05	kJ/mol	Joback Method
hfus	32.43	kJ/mol	Joback Method
hvap	70.42	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.334		Crippen Method
mcvol	205.110	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	2078.00		NIST Webbook
tb	726.38	K	Joback Method
tc	930.82	K	Joback Method
tf	453.03	K	Joback Method
vc	0.777	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.63	J/mol×K	726.38	Joback Method
cpg	627.82	J/mol×K	896.75	Joback Method
cpg	617.43	J/mol×K	862.68	Joback Method
cpg	606.11	J/mol×K	828.60	Joback Method
cpg	593.86	J/mol×K	794.53	Joback Method
cpg	580.70	J/mol×K	760.45	Joback Method
cpg	637.28	J/mol×K	930.82	Joback Method
dvisc	0.0000920	Pa×s	726.38	Joback Method
dvisc	0.0001155	Pa×s	680.82	Joback Method

dvisc	0.0001498	Pa×s	635.26	Joback Method
dvisc	0.0002023	Pa×s	589.71	Joback Method
dvisc	0.0002873	Pa×s	544.15	Joback Method
dvisc	0.0004349	Pa×s	498.59	Joback Method
dvisc	0.0007156	Pa×s	453.03	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358736&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