Glutaric acid, ethyl 3-methoxybenzyl ester

Inchi: InChI=1S/C15H20O5/c1-3-19-14(16)8-5-9-15(17)20-11-12-6-4-7-13(10-12)18-2/h4,6-7,1
InchiKey: DONZZANHPORGGV-UHFFFAOYSA-N
Formula: C15H20O5
SMILES: CCOC(=O)CCCC(=O)OCc1cccc(OC)c1
Mol. weight [g/mol]: 280.32

Physical Properties

Property code	Value	Unit	Source
gf	-394.64	kJ/mol	Joback Method
hf	-749.69	kJ/mol	Joback Method
hfus	35.02	kJ/mol	Joback Method
hvap	72.64	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.472		Crippen Method
mcvol	219.200	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinpol	2141.00		NIST Webbook
rinpol	2141.00		NIST Webbook
tb	749.26	K	Joback Method
tc	951.78	K	Joback Method
tf	464.30	K	Joback Method
vc	0.834	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.91	J/mol×K	749.26	Joback Method
cpg	683.50	J/mol×K	918.02	Joback Method
cpg	672.91	J/mol×K	884.27	Joback Method
cpg	661.35	J/mol×K	850.52	Joback Method
cpg	648.83	J/mol×K	816.77	Joback Method
cpg	635.35	J/mol×K	783.01	Joback Method
cpg	693.12	J/mol×K	951.78	Joback Method
dvisc	0.0000811	Pa×s	749.26	Joback Method

dvisc	0.0001023	Pa×s	701.77	Joback Method
dvisc	0.0001333	Pa×s	654.27	Joback Method
dvisc	0.0001812	Pa×s	606.78	Joback Method
dvisc	0.0002594	Pa×s	559.29	Joback Method
dvisc	0.0003969	Pa×s	511.79	Joback Method
dvisc	0.0006625	Pa×s	464.30	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377186&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