Glutaric acid, monoamide, N-(2-methoxyphenyl)-, ethyl ester

Inchi: InChI=1S/C14H19NO4/c1-3-19-14(17)10-6-9-13(16)15-11-7-4-5-8-12(11)18-2/h4-5,7-8H

InchiKey: IONHIPWPQHDMLO-UHFFFAOYSA-N

Formula: C14H19NO4

SMILES: CCOC(=O)CCCC(=O)Nc1ccccc1OC

Mol. weight [g/mol]: 265.31

Physical Properties

Property code	Value	Unit	Source
gf	-208.67	kJ/mol	Joback Method
hf	-543.36	kJ/mol	Joback Method
hfus	36.34	kJ/mol	Joback Method
hvap	74.44	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.367		Crippen Method
mcvol	209.220	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	2449.00		NIST Webbook
tb	754.13	K	Joback Method
tc	960.61	K	Joback Method
tf	483.46	K	Joback Method
vc	0.794	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.81	J/mol×K	754.13	Joback Method
cpg	607.61	J/mol×K	788.54	Joback Method
cpg	620.46	J/mol×K	822.96	Joback Method
cpg	632.37	J/mol×K	857.37	Joback Method
cpg	643.35	J/mol×K	891.79	Joback Method
cpg	653.42	J/mol×K	926.20	Joback Method
cpg	662.58	J/mol×K	960.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360927&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
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