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

Inchi: InChI=1S/C19H21NO3/c1-2-23-19(22)14-8-13-18(21)20-17-12-7-6-11-16(17)15-9-4-3-5-
InchiKey: VZNMDLMASZANLF-UHFFFAOYSA-N
Formula: C19H21NO3
SMILES: CCOC(=O)CCCC(=O)Nc1ccccc1-c1ccccc1
Mol. weight [g/mol]: 311.37

Physical Properties

Property code	Value	Unit	Source
gf	50.84	kJ/mol	Joback Method
hf	-277.81	kJ/mol	Joback Method
hfus	42.14	kJ/mol	Joback Method
hvap	85.44	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	4.026		Crippen Method
mcvol	250.040	ml/mol	McGowan Method
pc	1935.54	kPa	Joback Method
rinpol	2577.00		NIST Webbook
tb	872.79	K	Joback Method
tc	1100.41	K	Joback Method
tf	544.00	K	Joback Method
vc	0.949	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	751.73	J/mol×K	872.79	Joback Method
cpg	765.39	J/mol×K	910.73	Joback Method
cpg	777.85	J/mol×K	948.66	Joback Method
cpg	789.16	J/mol×K	986.60	Joback Method
cpg	799.39	J/mol×K	1024.53	Joback Method
cpg	808.59	J/mol×K	1062.47	Joback Method
cpg	816.83	J/mol×K	1100.41	Joback Method

Sources

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=U360038&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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