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

Inchi: InChI=1S/C26H35NO3/c1-2-3-4-5-6-7-13-21-30-26(29)20-14-19-25(28)27-24-18-12-11-1

InchiKey: OECDBHAPYYONBX-UHFFFAOYSA-N

Formula: C26H35NO3

SMILES: CCCCCCCCCOC(=O)CCCC(=O)Nc1ccccc1-c1ccccc1

Mol. weight [g/mol]: 409.56

Physical Properties

Property code	Value	Unit	Source
gf	109.78	kJ/mol	Joback Method
hf	-422.29	kJ/mol	Joback Method
hfus	60.27	kJ/mol	Joback Method
hvap	101.02	kJ/mol	Joback Method
log10ws	-8.16		Crippen Method
logp	6.756		Crippen Method
mcvol	348.670	ml/mol	McGowan Method
pc	1153.00	kPa	Joback Method
rinpol	3277.00		NIST Webbook
rinpol	3277.00		NIST Webbook
tb	1032.95	K	Joback Method
tc	1265.34	K	Joback Method
tf	622.89	K	Joback Method
vc	1.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1167.57	J/mol×K	1032.95	Joback Method
cpg	1182.16	J/mol×K	1071.68	Joback Method
cpg	1195.42	J/mol×K	1110.41	Joback Method
cpg	1207.45	J/mol×K	1149.14	Joback Method
cpg	1218.32	J/mol×K	1187.87	Joback Method
cpg	1228.13	J/mol×K	1226.61	Joback Method
cpg	1236.98	J/mol×K	1265.34	Joback Method

Sources

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=U360047&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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