Glutaric acid monoamide, N-(1,2,3,4-tetrahydronaphth-1-yl)-, nonyl ester

Other names: Glutaric acid, N-(1,2,3,4-tetrahydronaphth-1-yl)-, nonyl ester
Inchi: InChI=1S/C24H37NO3/c1-2-3-4-5-6-7-10-19-28-24(27)18-12-17-23(26)25-22-16-11-14-2
InchiKey: PDQOHIHPDNYZRH-UHFFFAOYSA-N
Formula: C24H37NO3
SMILES: CCCCCCCCCOC(=O)CCCC(=O)NC1CCCc2ccccc21
Mol. weight [g/mol]: 387.56

Physical Properties

Property code	Value	Unit	Source
gf	29.18	kJ/mol	Joback Method
hf	-550.90	kJ/mol	Joback Method
hfus	57.09	kJ/mol	Joback Method
hvap	94.38	kJ/mol	Joback Method
log10ws	-7.12		Crippen Method
logp	5.644		Crippen Method
mcvol	333.390	ml/mol	McGowan Method
pc	1165.63	kPa	Joback Method
rinpol	3175.00		NIST Webbook
rinpol	3175.00		NIST Webbook
tb	971.52	K	Joback Method
tc	1191.16	K	Joback Method
tf	588.35	K	Joback Method
vc	1.286	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1137.69	J/mol×K	971.52	Joback Method
cpg	1154.52	J/mol×K	1008.13	Joback Method
cpg	1170.09	J/mol×K	1044.73	Joback Method
cpg	1184.50	J/mol×K	1081.34	Joback Method
cpg	1197.82	J/mol×K	1117.95	Joback Method
cpg	1210.14	J/mol×K	1154.55	Joback Method
cpg	1221.54	J/mol×K	1191.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360211&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