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

Othernames: Glutaric acid, N-(1,2,3,4-tetrahydronaphth-1-yl)-, propyl ester
Inchi: InChI=1S/C18H25NO3/c1-2-13-22-18(21)12-6-11-17(20)19-16-10-5-8-14-7-3-4-9-15(14)
InchiKey: RAMPUCPUBCAYHC-UHFFFAOYSA-N
Formula: C18H25NO3
SMILES: CCCOC(=O)CCCC(=O)NC1CCCc2ccccc21
Mol. weight [g/mol]: 303.40

Physical Properties

Property code	Value	Unit	Source
gf	-21.34	kJ/mol	Joback Method
hf	-427.06	kJ/mol	Joback Method
hfus	41.55	kJ/mol	Joback Method
hvap	81.02	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	3.304		Crippen Method
mcvol	248.850	ml/mol	McGowan Method
pc	1806.16	kPa	Joback Method
rinpol	2560.00		NIST Webbook
rinpol	2560.00		NIST Webbook
tb	834.24	K	Joback Method
tc	1049.49	K	Joback Method
tf	520.73	K	Joback Method
vc	0.950	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	777.66	J/mol×K	834.24	Joback Method
cpg	793.42	J/mol×K	870.11	Joback Method
cpg	808.03	J/mol×K	905.99	Joback Method
cpg	821.57	J/mol×K	941.86	Joback Method
cpg	834.07	J/mol×K	977.74	Joback Method
cpg	845.61	J/mol×K	1013.61	Joback Method
cpg	856.24	J/mol×K	1049.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360203&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
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