Glutaric acid, monoamide, N-(4-ethylphenyl)-, nonyl ester

Inchi: InChI=1S/C22H35NO3/c1-3-5-6-7-8-9-10-18-26-22(25)13-11-12-21(24)23-20-16-14-19(4

InchiKey: UKATZCAKCXDFEU-UHFFFAOYSA-N

Formula: C22H35NO3

SMILES: CCCCCCCCCOC(=O)CCCC(=O)Nc1ccc(CC)cc1

Mol. weight [g/mol]: 361.52

Physical Properties

Property code	Value	Unit	Source
gf	-36.31	kJ/mol	Joback Method
hf	-576.26	kJ/mol	Joback Method
hfus	55.87	kJ/mol	Joback Method
hvap	89.84	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	5.652		Crippen Method
mcvol	316.070	ml/mol	McGowan Method
pc	1195.65	kPa	Joback Method
rinpol	3232.00		NIST Webbook
tb	914.75	K	Joback Method
tc	1122.55	K	Joback Method
tf	551.39	K	Joback Method
vc	1.224	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.20	J/mol×K	914.75	Joback Method
cpg	1044.50	J/mol×K	949.38	Joback Method
cpg	1059.61	J/mol×K	984.02	Joback Method
cpg	1073.57	J/mol×K	1018.65	Joback Method
cpg	1086.42	J/mol×K	1053.28	Joback Method
cpg	1098.21	J/mol×K	1087.91	Joback Method
cpg	1109.00	J/mol×K	1122.55	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=U360903&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