Glutaric acid, monoamide, N,N-di(4-methylphenyl)-, undecyl ester

Inchi: InChI=1S/C30H43NO3/c1-4-5-6-7-8-9-10-11-12-24-34-30(33)15-13-14-29(32)31(27-20-1

InchiKey: FKVNOHQFGQNVOI-UHFFFAOYSA-N

Formula: C30H43NO3

SMILES: CCCCCCCCCCCOC(=O)CCCC(=O)N(c1ccc(C)cc1)c1ccc(C)cc1

Mol. weight [g/mol]: 465.67

Physical Properties

Property code	Value	Unit	Source
gf	155.22	kJ/mol	Joback Method
hf	-502.26	kJ/mol	Joback Method
hfus	68.17	kJ/mol	Joback Method
hvap	106.20	kJ/mol	Joback Method
log10ws	-9.04		Crippen Method
logp	8.212		Crippen Method
mcvol	405.030	ml/mol	McGowan Method
pc	886.30	kPa	Joback Method
rinpol	3523.00		NIST Webbook
rinpol	3523.00		NIST Webbook
tb	1091.72	K	Joback Method
tc	1338.94	K	Joback Method
tf	660.30	K	Joback Method
vc	1.548	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1401.20	J/mol×K	1091.72	Joback Method
cpg	1417.66	J/mol×K	1132.92	Joback Method
cpg	1432.63	J/mol×K	1174.13	Joback Method
cpg	1446.22	J/mol×K	1215.33	Joback Method
cpg	1458.58	J/mol×K	1256.53	Joback Method
cpg	1469.83	J/mol×K	1297.74	Joback Method
cpg	1480.10	J/mol×K	1338.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360240&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