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

Inchi: InChI=1S/C21H25NO3/c1-4-25-21(24)7-5-6-20(23)22(18-12-8-16(2)9-13-18)19-14-10-17

InchiKey: OXAGGAYNPIGDFL-UHFFFAOYSA-N

Formula: C21H25NO3

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

Mol. weight [g/mol]: 339.43

Physical Properties

Property code	Value	Unit	Source
gf	79.44	kJ/mol	Joback Method
hf	-316.50	kJ/mol	Joback Method
hfus	44.86	kJ/mol	Joback Method
hvap	86.16	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	4.702		Crippen Method
mcvol	278.220	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
rinpol	2617.00		NIST Webbook
tb	885.80	K	Joback Method
tc	1108.14	K	Joback Method
tf	558.87	K	Joback Method
vc	1.044	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.39	J/mol×K	885.80	Joback Method
cpg	867.20	J/mol×K	922.86	Joback Method
cpg	880.78	J/mol×K	959.91	Joback Method
cpg	893.21	J/mol×K	996.97	Joback Method
cpg	904.53	J/mol×K	1034.03	Joback Method
cpg	914.83	J/mol×K	1071.09	Joback Method
cpg	924.15	J/mol×K	1108.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360229&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