Glutaric acid, diamide, N,N'-bis-(1-phenylethyl)-

Inchi: InChI=1S/C21H26N2O2/c1-16(18-10-5-3-6-11-18)22-20(24)14-9-15-21(25)23-17(2)19-12

InchiKey: JJNHLUHXPLYLRX-UHFFFAOYSA-N

Formula: C21H26N2O2

SMILES: CC(NC(=O)CCCC(=O)NC(C)c1ccccc1)c1ccccc1

Mol. weight [g/mol]: 338.44

Physical Properties

Property code	Value	Unit	Source
gf	266.82	kJ/mol	Joback Method
hf	-132.49	kJ/mol	Joback Method
hfus	44.58	kJ/mol	Joback Method
hvap	92.48	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	3.911		Crippen Method
mcvol	282.330	ml/mol	McGowan Method
pc	1730.34	kPa	Joback Method
rinpol	3082.00		NIST Webbook
tb	940.44	K	Joback Method
tc	1171.75	K	Joback Method
tf	554.45	K	Joback Method
vc	1.065	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	897.56	J/mol×K	940.44	Joback Method
cpg	911.49	J/mol×K	978.99	Joback Method
cpg	924.25	J/mol×K	1017.54	Joback Method
cpg	935.96	J/mol×K	1056.09	Joback Method
cpg	946.70	J/mol×K	1094.64	Joback Method
cpg	956.58	J/mol×K	1133.19	Joback Method
cpg	965.70	J/mol×K	1171.75	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360167&Units=SI

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