Glutaric acid, diamide, N,N'-bis-(4-methylbenzyl)-

Inchi: InChI=1S/C21H26N2O2/c1-16-6-10-18(11-7-16)14-22-20(24)4-3-5-21(25)23-15-19-12-8-

InchiKey: OMCFVEIRZHUUSW-UHFFFAOYSA-N

Formula: C21H26N2O2

SMILES: Cc1ccc(CNC(=O)CCCC(=O)NCc2ccc(C)cc2)cc1

Mol. weight [g/mol]: 338.44

Physical Properties

Property code	Value	Unit	Source
gf	252.44	kJ/mol	Joback Method
hf	-144.87	kJ/mol	Joback Method
hfus	50.85	kJ/mol	Joback Method
hvap	94.58	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	3.406		Crippen Method
mcvol	282.330	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
rinpol	3435.00		NIST Webbook
tb	951.28	K	Joback Method
tc	1179.66	K	Joback Method
tf	609.49	K	Joback Method
vc	1.077	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	894.25	J/mol×K	951.28	Joback Method
cpg	907.83	J/mol×K	989.34	Joback Method
cpg	920.28	J/mol×K	1027.41	Joback Method
cpg	931.70	J/mol×K	1065.47	Joback Method
cpg	942.16	J/mol×K	1103.53	Joback Method
cpg	951.75	J/mol×K	1141.60	Joback Method
cpg	960.53	J/mol×K	1179.66	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=U360021&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