Glutaric acid, monoamide, N-methyl-N-benzyl-, pentyl ester

Inchi: InChI=1S/C18H27NO3/c1-3-4-8-14-22-18(21)13-9-12-17(20)19(2)15-16-10-6-5-7-11-16/h
InchiKey: CMNGJFSSNHCFSJ-UHFFFAOYSA-N
Formula: C18H27NO3
SMILES: CCCCCOC(=O)CCCC(=O)N(C)Cc1ccccc1
Mol. weight [g/mol]: 305.41

Physical Properties

Property code	Value	Unit	Source
gf	-38.97	kJ/mol	Joback Method
hf	-468.17	kJ/mol	Joback Method
hfus	43.82	kJ/mol	Joback Method
hvap	75.88	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	3.549		Crippen Method
mcvol	259.710	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
rinpol	2447.00		NIST Webbook
rinpol	2447.00		NIST Webbook
tb	780.52	K	Joback Method
tc	978.42	K	Joback Method
tf	473.60	K	Joback Method
vc	0.984	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	774.46	J/mol×K	780.52	Joback Method
cpg	790.69	J/mol×K	813.50	Joback Method
cpg	805.87	J/mol×K	846.49	Joback Method
cpg	820.05	J/mol×K	879.47	Joback Method
cpg	833.27	J/mol×K	912.45	Joback Method
cpg	845.57	J/mol×K	945.44	Joback Method
cpg	856.99	J/mol×K	978.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360839&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