4,4'-Oxybis(benzoylhydrazide)

Inchi: InChI=1S/C14H14N4O3/c15-17-13(19)9-1-5-11(6-2-9)21-12-7-3-10(4-8-12)14(20)18-16/h
InchiKey: GMVKIRUIWVGPQC-UHFFFAOYSA-N
Formula: C14H14N4O3
SMILES: NNC(=O)c1ccc(Oc2ccc(C(=O)NN)cc2)cc1
Mol. weight [g/mol]: 286.29
CAS: 13092-49-4

Physical Properties

Property code	Value	Unit	Source
chs	-7207.80	kJ/mol	NIST Webbook
gf	221.40	kJ/mol	Joback Method
hf	-65.03	kJ/mol	Joback Method
hfs	-304.00	kJ/mol	NIST Webbook
hfus	44.30	kJ/mol	Joback Method
hvap	102.69	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	0.686		Crippen Method
mcvol	209.530	ml/mol	McGowan Method
pc	3538.87	kPa	Joback Method
tb	958.60	K	Joback Method
tc	1211.23	K	Joback Method
tf	719.35	K	Joback Method
vc	0.761	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.27	J/mol×K	958.60	Joback Method
cpg	640.86	J/mol×K	1000.70	Joback Method
cpg	648.32	J/mol×K	1042.81	Joback Method
cpg	654.68	J/mol×K	1084.91	Joback Method
cpg	660.03	J/mol×K	1127.02	Joback Method
cpg	664.40	J/mol×K	1169.12	Joback Method
cpg	667.86	J/mol×K	1211.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13092494&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

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume