N-[4-Bis(acetyl)-aminobutyl]acetamide

Inchi: InChI=1S/C10H18N2O3/c1-8(13)11-6-4-5-7-12(9(2)14)10(3)15/h4-7H2,1-3H3,(H,11,13)
InchiKey: GKCFHNWYBULEBQ-UHFFFAOYSA-N
Formula: C10H18N2O3
SMILES: CC(=O)NCCCCN(C(C)=O)C(C)=O
Mol. weight [g/mol]: 214.26

Physical Properties

Property code	Value	Unit	Source
gf	-153.27	kJ/mol	Joback Method
hf	-466.47	kJ/mol	Joback Method
hfus	34.57	kJ/mol	Joback Method
hvap	66.57	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	0.298		Crippen Method
mcvol	176.430	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
rinpol	1888.00		NIST Webbook
tb	652.42	K	Joback Method
tc	841.71	K	Joback Method
tf	437.38	K	Joback Method
vc	0.666	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.58	J/mol×K	652.42	Joback Method
cpg	484.41	J/mol×K	683.97	Joback Method
cpg	496.52	J/mol×K	715.52	Joback Method
cpg	507.93	J/mol×K	747.07	Joback Method
cpg	518.67	J/mol×K	778.62	Joback Method
cpg	528.77	J/mol×K	810.17	Joback Method
cpg	538.24	J/mol×K	841.71	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378736&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