2,4-Diaminophenol, N2,N4,N4,O-tetraacetyl-

Other names: 2-Acetamido-4-(diacetylamino)phenyl acetate
Inchi: InChI=1S/C14H16N2O5/c1-8(17)15-13-7-12(16(9(2)18)10(3)19)5-6-14(13)21-11(4)20/h5
InchiKey: IOSIRNNEXBNDSI-UHFFFAOYSA-N
Formula: C14H16N2O5
SMILES: CC(=O)Nc1cc(N(C(C)=O)C(C)=O)ccc1OC(C)=O
Mol. weight [g/mol]: 292.29

Physical Properties

Property code	Value	Unit	Source
gf	-260.36	kJ/mol	Joback Method
hf	-580.24	kJ/mol	Joback Method
hfus	40.98	kJ/mol	Joback Method
hvap	88.23	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	1.470		Crippen Method
mcvol	216.470	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
rinpol	2355.00		NIST Webbook
tb	856.87	K	Joback Method
tc	1076.14	K	Joback Method
tf	606.08	K	Joback Method
vc	0.806	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.89	J/mol×K	856.87	Joback Method
cpg	640.67	J/mol×K	893.42	Joback Method
cpg	650.45	J/mol×K	929.96	Joback Method
cpg	659.25	J/mol×K	966.51	Joback Method
cpg	667.11	J/mol×K	1003.05	Joback Method
cpg	674.04	J/mol×K	1039.60	Joback Method
cpg	680.08	J/mol×K	1076.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373246&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