N-Acetyl-N-(4-methoxyphenyl)acetamide

Other names:	4-(Diacetylamino)anisole
	N-(4-Methoxyphenyl)diacetamide
Inchi:	InChI=1S/C11H13NO3/c1-8(13)12(9(2)14)10-4-6-11(15-3)7-5-10/h4-7H,1-3H3
InchiKey:	NWBPJGXONLXNMX-UHFFFAOYSA-N
Formula:	C11H13NO3
SMILES:	COc1ccc(N(C(C)=O)C(C)=O)cc1
Mol. weight [g/mol]:	207.23

Physical Properties

Property code	Value	Unit	Source
gf	-107.54	kJ/mol	Joback Method
hf	-335.16	kJ/mol	Joback Method
hfus	25.30	kJ/mol	Joback Method
hvap	60.96	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.595		Crippen Method
mcvol	161.080	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1663.00		NIST Webbook
tb	625.34	K	Joback Method
tc	840.07	K	Joback Method
tf	407.23	K	Joback Method
vc	0.592	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.16	J/mol×K	625.34	Joback Method
cpg	412.52	J/mol×K	661.13	Joback Method
cpg	425.03	J/mol×K	696.92	Joback Method
cpg	436.70	J/mol×K	732.70	Joback Method
cpg	447.56	J/mol×K	768.49	Joback Method
cpg	457.64	J/mol×K	804.28	Joback Method
cpg	466.95	J/mol×K	840.07	Joback Method

Sources

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=U373212&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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