Acetamide, N-(4-methoxyphenyl)-2-phenyl-

Inchi: InChI=1S/C15H15NO2/c1-18-14-9-7-13(8-10-14)16-15(17)11-12-5-3-2-4-6-12/h2-10H,11
InchiKey: LZSPYXRRVCVACQ-UHFFFAOYSA-N
Formula: C15H15NO2
SMILES: COc1ccc(NC(=O)Cc2ccccc2)cc1
Mol. weight [g/mol]: 241.29

Physical Properties

Property code	Value	Unit	Source
gf	146.08	kJ/mol	Joback Method
hf	-82.67	kJ/mol	Joback Method
hfus	30.18	kJ/mol	Joback Method
hvap	69.79	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	2.876		Crippen Method
mcvol	192.110	ml/mol	McGowan Method
pc	2624.46	kPa	Joback Method
rinpol	2224.00		NIST Webbook
rinpol	2224.00		NIST Webbook
tb	727.40	K	Joback Method
tc	963.37	K	Joback Method
tf	448.99	K	Joback Method
vc	0.719	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.85	J/mol×K	727.40	Joback Method
cpg	532.62	J/mol×K	766.73	Joback Method
cpg	546.20	J/mol×K	806.06	Joback Method
cpg	558.64	J/mol×K	845.39	Joback Method
cpg	570.00	J/mol×K	884.72	Joback Method
cpg	580.32	J/mol×K	924.05	Joback Method
cpg	589.66	J/mol×K	963.37	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307144&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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