4-Methoxyformanilide

Other names: Formamide, N-(4-methoxyphenyl)-
p-Formanisidide
N-(4-methoxyphenyl)formamide
Inchi: InChI=1S/C8H9NO2/c1-11-8-4-2-7(3-5-8)9-6-10/h2-6H,1H3,(H,9,10)
InchiKey: SXEVZVMJNXOXIJ-UHFFFAOYSA-N
Formula: C8H9NO2
SMILES: COc1ccc(NC=O)cc1
Mol. weight [g/mol]: 151.16
CAS: 5470-34-8

Physical Properties

Property code	Value	Unit	Source
gf	4.13	kJ/mol	Joback Method
hf	-147.72	kJ/mol	Joback Method
hfus	18.70	kJ/mol	Joback Method
hvap	51.91	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.263		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	3906.25	kPa	Joback Method
tb	535.35	K	Joback Method
tc	751.26	K	Joback Method
tf	335.75	K	Joback Method
vc	0.446	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.94	J/mol×K	535.35	Joback Method
cpg	269.07	J/mol×K	571.33	Joback Method
cpg	279.57	J/mol×K	607.32	Joback Method
cpg	289.46	J/mol×K	643.30	Joback Method
cpg	298.75	J/mol×K	679.29	Joback Method
cpg	307.45	J/mol×K	715.27	Joback Method

cpg	315.56	J/mol×K	751.26	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5470348&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume