

Acetamide, N-(4-ethoxyphenyl)-N-hydroxy-

Other names:	p-Acetophenetidide, N-hydroxy- Acetohydroxamic acid, N-(4-ethoxyphenyl)- Acetohydroxamic acid, N-(p-ethoxyphenyl)- N-(4-Ethoxyphenyl)acetohydroxamic acid N-Hydroxy-p-acetophenetidide N-Hydroxyphenacetin
Inchi:	InChI=1S/C10H13NO3/c1-3-14-10-6-4-9(5-7-10)11(13)8(2)12/h4-7,13H,3H2,1-2H3
InchiKey:	GPMYDZBSYQUDJZ-UHFFFAOYSA-N
Formula:	C10H13NO3
SMILES:	CCOc1ccc(N(O)C(C)=O)cc1
Mol. weight [g/mol]:	195.22
CAS:	19315-64-1

Physical Properties

Property code	Value	Unit	Source
gf	-123.86	kJ/mol	Joback Method
hf	-354.17	kJ/mol	Joback Method
hfus	25.20	kJ/mol	Joback Method
hvap	68.67	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.827		Crippen Method
mcvol	151.290	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
tb	640.77	K	Joback Method
tc	837.90	K	Joback Method
tf	406.85	K	Joback Method
vc	0.548	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.71	J/mol×K	640.77	Joback Method
cpg	398.11	J/mol×K	673.63	Joback Method
cpg	408.83	J/mol×K	706.48	Joback Method

cpg	418.90	J/mol×K	739.34	Joback Method
cpg	428.34	J/mol×K	772.19	Joback Method
cpg	437.16	J/mol×K	805.05	Joback Method
cpg	445.38	J/mol×K	837.90	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=C19315641&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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