2-Acetyl-1-phenylhydrazine

Other names:	«beta»-Acetylphenylhydrazine
	Acetylphenylhydrazine
	APH
	Hydracetin
	N-Acetyl-N'-Phenylhydrazine
	N'-Phenylacethydrazide
	Pyrodin
	Pyrodine
	1-Acetyl-2-phenylhydrazine
	2-Phenylacetohydrazide
	Acetic acid, 2-phenylhydrazide
	Acetic acid phenylhydrazone
	1-Phenyl-2-acetylhydrazine
	Fenylhydrazid kyseliny octove
	N-(Phenylamino)acetamide
	NSC 2064
	2'-phenylacetohydrazide
Inchi:	InChI=1S/C8H10N2O/c1-7(11)9-10-8-5-3-2-4-6-8/h2-6,10H,1H3,(H,9,11)
InchiKey:	UICBCXONCUFSOI-UHFFFAOYSA-N
Formula:	C8H10N2O
SMILES:	CC(=O)NNc1ccccc1
Mol. weight [g/mol]:	150.18
CAS:	114-83-0

Physical Properties

Property code	Value	Unit	Source
gf	178.75	kJ/mol	Joback Method
hf	22.44	kJ/mol	Joback Method
hfus	22.31	kJ/mol	Joback Method
hvap	55.30	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.150		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4077.71	kPa	Joback Method
tb	563.33	K	Joback Method
tc	785.80	K	Joback Method
tf	361.59	K	Joback Method

vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.91	J/mol×K	563.33	Joback Method
cpg	291.01	J/mol×K	600.41	Joback Method
cpg	302.28	J/mol×K	637.49	Joback Method
cpg	312.75	J/mol×K	674.57	Joback Method
cpg	322.47	J/mol×K	711.64	Joback Method
cpg	331.46	J/mol×K	748.72	Joback Method
cpg	339.78	J/mol×K	785.80	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C114830&Units=SI

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