

4-Iodophenyhydrazine

Inchi:	InChI=1S/C6H7IN2/c7-5-1-3-6(9-8)4-2-5/h1-4,9H,8H2
InchiKey:	IQMLCMKMSBMMGR-UHFFFAOYSA-N
Formula:	C6H7IN2
SMILES:	NNc1ccc(I)cc1
Mol. weight [g/mol]:	234.04
CAS:	13116-27-3

Physical Properties

Property code	Value	Unit	Source
gf	316.38	kJ/mol	Joback Method
hf	222.02	kJ/mol	Joback Method
hfus	19.65	kJ/mol	Joback Method
hvap	58.34	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	1.577		Crippen Method
mcvol	117.420	ml/mol	McGowan Method
pc	4890.21	kPa	Joback Method
tb	584.18	K	Joback Method
tc	850.53	K	Joback Method
tf	390.30	K	Joback Method
vc	0.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.76	J/molxK	584.18	Joback Method
cpg	236.24	J/molxK	628.57	Joback Method
cpg	244.89	J/molxK	672.96	Joback Method
cpg	252.78	J/molxK	717.35	Joback Method
cpg	259.98	J/molxK	761.74	Joback Method
cpg	266.53	J/molxK	806.13	Joback Method
cpg	272.52	J/molxK	850.53	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=C13116273&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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