Hydrazine, 1-isopropyl-1,2-dimethyl

Inchi: InChI=1S/C5H14N2/c1-5(2)7(4)6-3/h5-6H,1-4H3
InchiKey: ICLXFSBBGPCBRW-UHFFFAOYSA-N
Formula: C5H14N2
SMILES: CNN(C)C(C)C
Mol. weight [g/mol]: 102.18

Physical Properties

Property code	Value	Unit	Source
gf	188.95	kJ/mol	Joback Method
hf	-30.81	kJ/mol	Joback Method
hfus	13.30	kJ/mol	Joback Method
hvap	34.81	kJ/mol	Joback Method
log10ws	-0.78		Crippen Method
logp	0.461		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3547.31	kPa	Joback Method
rinpol	682.00		NIST Webbook
tb	375.97	K	Joback Method
tc	549.01	K	Joback Method
tf	216.24	K	Joback Method
vc	0.362	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.02	J/mol×K	375.97	Joback Method
cpg	200.74	J/mol×K	404.81	Joback Method
cpg	211.97	J/mol×K	433.65	Joback Method
cpg	222.72	J/mol×K	462.49	Joback Method
cpg	233.01	J/mol×K	491.33	Joback Method
cpg	242.84	J/mol×K	520.17	Joback Method
cpg	252.24	J/mol×K	549.01	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=R511774&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