

Hydrazine, 1-methyl-1-(1-methylethyl)-

Other names:	1-Methyl-1-isopropylhydrazine
Inchi:	InChI=1S/C4H12N2/c1-4(2)6(3)5/h4H,5H2,1-3H3
InchiKey:	XYQCAFWEBBSSKS-UHFFFAOYSA-N
Formula:	C4H12N2
SMILES:	CC(C)N(C)N
Mol. weight [g/mol]:	88.15
CAS:	33668-54-1

Physical Properties

Property code	Value	Unit	Source
gf	157.59	kJ/mol	Joback Method
hf	-29.85	kJ/mol	Joback Method
hfus	10.81	kJ/mol	Joback Method
hvap	36.79	kJ/mol	Joback Method
log10ws	-0.60		Crippen Method
logp	0.200		Crippen Method
mcvol	87.180	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
rinpol	694.00		NIST Webbook
rinpol	694.00		NIST Webbook
tb	375.45	K	Joback Method
tc	560.02	K	Joback Method
tf	235.57	K	Joback Method
vc	0.300	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	164.17	J/molxK	375.45	Joback Method
cpg	174.57	J/molxK	406.21	Joback Method
cpg	184.50	J/molxK	436.97	Joback Method
cpg	193.98	J/molxK	467.73	Joback Method
cpg	203.01	J/molxK	498.50	Joback Method
cpg	211.61	J/molxK	529.26	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=C33668541&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

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