

Hydrazine, 1,1-bis(1-methylethyl)-

Other names:	Hydrazine, 1,1-diisopropyl- 1,1-Diisopropylhydrazine N,N-Diisopropylhydrazine
Inchi:	InChI=1S/C6H16N2/c1-5(2)8(7)6(3)4/h5-6H,7H2,1-4H3
InchiKey:	CDLZUDXUPFCTRJ-UHFFFAOYSA-N
Formula:	C6H16N2
SMILES:	CC(C)N(N)C(C)C
Mol. weight [g/mol]:	116.20
CAS:	921-14-2

Physical Properties

Property code	Value	Unit	Source
gf	171.99	kJ/mol	Joback Method
hf	-76.41	kJ/mol	Joback Method
hfus	12.47	kJ/mol	Joback Method
hvap	40.86	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	0.979		Crippen Method
mcvol	115.360	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
rinpol	835.00		NIST Webbook
rinpol	835.00		NIST Webbook
rinpol	833.00		NIST Webbook
tb	420.77	K	Joback Method
tc	607.32	K	Joback Method
tf	243.11	K	Joback Method
vc	0.406	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.17	J/mol×K	420.77	Joback Method
cpg	253.46	J/mol×K	451.86	Joback Method
cpg	266.12	J/mol×K	482.95	Joback Method

cpg	278.19	J/mol×K	514.04	Joback Method
cpg	289.68	J/mol×K	545.14	Joback Method
cpg	300.61	J/mol×K	576.23	Joback Method
cpg	311.00	J/mol×K	607.32	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=C921142&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/43-544-0/Hydrazine-1-1-bis-1-methylethyl.pdf>

Generated by Cheméo on 2024-04-19 21:24:52.633805626 +0000 UTC m=+15851141.554382941.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.