

Hydrazine, 1-methyl-2-phenylethyl

Other names:	Pheniprazine
Inchi:	InChI=1S/C9H14N2/c1-8(11-10)7-9-5-3-2-4-6-9/h2-6,8,11H,7,10H2,1H3
InchiKey:	VXTWEDPZMSVFEF-UHFFFAOYSA-N
Formula:	C9H14N2
SMILES:	CC(Cc1ccccc1)NN
Mol. weight [g/mol]:	150.22
CAS:	55-52-7

Physical Properties

Property code	Value	Unit	Source
gf	290.71	kJ/mol	Joback Method
hf	89.42	kJ/mol	Joback Method
hfus	19.88	kJ/mol	Joback Method
hvap	54.59	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	1.081		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	1400.00		NIST Webbook
rinpol	1400.00		NIST Webbook
tb	554.26	K	Joback Method
tc	778.64	K	Joback Method
tf	338.53	K	Joback Method
vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	318.81	J/molxK	554.26	Joback Method
cpg	333.23	J/molxK	591.66	Joback Method
cpg	346.70	J/molxK	629.05	Joback Method
cpg	359.27	J/molxK	666.45	Joback Method
cpg	370.98	J/molxK	703.85	Joback Method
cpg	381.87	J/molxK	741.24	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C55527&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
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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