Phenelzine

Other names:	Hydrazine, (2-phenylethyl)-
	Hydrazine, phenethyl-
	«beta»-Phenylethylhydrazine
	Phenethylhydrazine
	Stinerval
	W 1544-A
	W-1544
	2-Phenylethylhydrazine
	Fenelzyna
	Fenelzyne
	2-Phenethylhydrazine
	Phenalzine
	Phenylethylhydrazine
	1-(2-Phenethyl)hydrazine
	1-Hydrazino-2-phenylethane
	Phenelezine
Inchi:	InChI=1S/C8H12N2/c9-10-7-6-8-4-2-1-3-5-8/h1-5,10H,6-7,9H2
InchiKey:	RMUCZJUITONUFY-UHFFFAOYSA-N
Formula:	C8H12N2
SMILES:	NNCCc1ccccc1
Mol. weight [g/mol]:	136.19
CAS:	51-71-8

Physical Properties

Property code	Value	Unit	Source
gf	284.73	kJ/mol	Joback Method
hf	115.34	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	52.75	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	0.692		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
rinpol	1330.00		NIST Webbook
rinpol	1328.00		NIST Webbook
rinpol	1329.00		NIST Webbook
rinpol	1340.00		NIST Webbook

rinpol	1335.00		NIST Webbook
rinpol	1330.00		NIST Webbook
tb	531.82	K	Joback Method
tc	755.23	K	Joback Method
tf	342.26	K	Joback Method
vc	0.440	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.18	J/mol×K	531.82	Joback Method
cpg	286.35	J/mol×K	569.06	Joback Method
cpg	298.65	J/mol×K	606.29	Joback Method
cpg	310.13	J/mol×K	643.53	Joback Method
cpg	320.84	J/mol×K	680.76	Joback Method
cpg	330.80	J/mol×K	718.00	Joback Method
cpg	340.06	J/mol×K	755.23	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=C51718&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume