

Phenmetrazine

Other names:	Morpholine, 3-methyl-2-phenyl- A 66 Oxazimedrine Phenmetrazin Probese-P Psychamine A 66 2-Phenyl-3-methylmorpholine 3-Methyl-2-phenylmorpholine 3-Methyl-2-phenyltetrahydro-2H-1,4-oxazine
Inchi:	InChI=1S/C11H15NO/c1-9-11(13-8-7-12-9)10-5-3-2-4-6-10/h2-6,9,11-12H,7-8H2,1H3
InchiKey:	OOBHFESNSZDWIU-UHFFFAOYSA-N
Formula:	C11H15NO
SMILES:	CC1NCCOC1c1ccccc1
Mol. weight [g/mol]:	177.24
CAS:	134-49-6

Physical Properties

Property code	Value	Unit	Source
gf	172.48	kJ/mol	Joback Method
hf	-94.05	kJ/mol	Joback Method
hfus	28.76	kJ/mol	Joback Method
hvap	53.74	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.736		Crippen Method
mcvol	147.080	ml/mol	McGowan Method
pc	3246.73	kPa	Joback Method
rinpol	1431.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1416.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1458.00		NIST Webbook
rinpol	1468.00		NIST Webbook
rinpol	1431.00		NIST Webbook
rinpol	1440.00		NIST Webbook

ripol	1468.00		NIST Webbook
ripol	1440.00		NIST Webbook
ripol	1430.00		NIST Webbook
ripol	1469.00		NIST Webbook
ripol	1419.00		NIST Webbook
ripol	1419.00		NIST Webbook
ripol	1420.00		NIST Webbook
ripol	1468.00		NIST Webbook
ripol	2089.00		NIST Webbook
ripol	2168.00		NIST Webbook
ripol	2158.00		NIST Webbook
ripol	2150.00		NIST Webbook
tb	568.14	K	Joback Method
tc	814.94	K	Joback Method
tf	374.89	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.44	J/mol×K	568.14	Joback Method
cpg	385.26	J/mol×K	609.27	Joback Method
cpg	403.72	J/mol×K	650.41	Joback Method
cpg	420.85	J/mol×K	691.54	Joback Method
cpg	436.70	J/mol×K	732.67	Joback Method
cpg	451.30	J/mol×K	773.80	Joback Method
cpg	464.68	J/mol×K	814.94	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=C134496&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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
hvac:	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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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