

1H-Imidazole, 4,5-dihydro-2-methyl-

Other names:	Lysidine 2-Imidazoline, 2-methyl- Methylglyoxalidine 2-Methyl-«delta»2-imidazoline 2-Methyl-2-imidazoline 2-Methylimidazoline 4-Methyl-2-imidazoline 4,5-Dihydro-2-methyl-1H-imidazole Methyl glyoxaidine 2-Methyl-4,5-dihydroimidazole
Inchi:	InChI=1S/C4H8N2/c1-4-5-2-3-6-4/h2-3H2,1H3,(H,5,6)
InchiKey:	VWSLLSXLURJCDF-UHFFFAOYSA-N
Formula:	C4H8N2
SMILES:	CC1=NCCN1
Mol. weight [g/mol]:	84.12
CAS:	534-26-9

Physical Properties

Property code	Value	Unit	Source
gf	251.88	kJ/mol	Joback Method
hf	110.02	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	38.99	kJ/mol	Joback Method
log10ws	-0.24		Crippen Method
logp	0.008		Crippen Method
mcvol	72.020	ml/mol	McGowan Method
pc	5552.58	kPa	Joback Method
tb	417.26	K	Joback Method
tc	645.35	K	Joback Method
tf	339.83	K	Joback Method
vc	0.274	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.30	J/mol×K	417.26	Joback Method
cpg	147.71	J/mol×K	455.27	Joback Method
cpg	158.62	J/mol×K	493.29	Joback Method
cpg	169.01	J/mol×K	531.30	Joback Method
cpg	178.89	J/mol×K	569.32	Joback Method
cpg	188.25	J/mol×K	607.33	Joback Method
cpg	197.09	J/mol×K	645.35	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=C534269&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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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