1H-Pyrazole, 4,5-dihydro-4,5-dimethyl-

Other names: 4,5-Dimethyl-«DELTA»[2]-pyrazoline
4,5-Dimethyl-4,5-dihydro-1H-pyrazole
4,5-Dihydro-4,5-dimethyl- 1H-pyrazol
Inchi: InChI=1S/C5H10N2/c1-4-3-6-7-5(4)2/h3-5,7H,1-2H3
InchiKey: SOAGQMUXRXXXPM-UHFFFAOYSA-N
Formula: C5H10N2
SMILES: CC1C=NNC1C
Mol. weight [g/mol]: 98.15
CAS: 28019-94-5

Physical Properties

Property code	Value	Unit	Source
gf	254.51	kJ/mol	Joback Method
hf	60.17	kJ/mol	Joback Method
hfus	19.66	kJ/mol	Joback Method
hvap	39.93	kJ/mol	Joback Method
log10ws	-1.02		Crippen Method
logp	0.600		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	4510.35	kPa	Joback Method
tb	425.82	K	Joback Method
tc	648.48	K	Joback Method
tf	330.10	K	Joback Method
vc	0.328	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.37	J/mol×K	425.82	Joback Method
cpg	189.39	J/mol×K	462.93	Joback Method
cpg	202.82	J/mol×K	500.04	Joback Method
cpg	215.65	J/mol×K	537.15	Joback Method
cpg	227.88	J/mol×K	574.26	Joback Method
cpg	239.49	J/mol×K	611.37	Joback Method

cpg	250.48	J/mol×K	648.48	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C28019945&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume