

Tetrahydrozoline

Other names:

1H-Imidazole, 4,5-dihydro-2-(1,2,3,4-tetrahydro-1-naphthalenyl)-
2-Imidazoline, 2-(1,2,3,4-tetrahydro-1-naphthyl)-
Tetryzolin
Tetryzoline
Tyzanol
2-(1,2,3,4-Tetrahydro-1-naphthyl)-2-imidazoline
2-(1,2,3,4-Tetrahydro-1-naphthalenyl)-4,5-dihydro-1H-imidazole

Inchi: InChI=1S/C13H16N2/c1-2-6-11-10(4-1)5-3-7-12(11)13-14-8-9-15-13/h1-2,4,6,12H,3,5,7-**InchiKey:** BYJAVTDNIXVSPW-UHFFFAOYSA-N**Formula:** C13H16N2**SMILES:** c1ccc2c(c1)CCCC2C1=NCCN1**Mol. weight [g/mol]:** 200.28**CAS:** 84-22-0

Physical Properties

Property code	Value	Unit	Source
gf	479.09	kJ/mol	Joback Method
hf	215.96	kJ/mol	Joback Method
hfus	27.54	kJ/mol	Joback Method
hvap	62.04	kJ/mol	Joback Method
ie	8.33	eV	NIST Webbook
log10ws	-2.93		Crippen Method
logp	2.108		Crippen Method
mcvol	164.210	ml/mol	McGowan Method
pc	3322.01	kPa	Joback Method
rinpola	1833.00		NIST Webbook
rinpola	1833.00		NIST Webbook
tb	665.85	K	Joback Method
tc	934.64	K	Joback Method
tf	494.62	K	Joback Method
vc	0.619	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.76	J/mol×K	665.85	Joback Method
cpg	484.18	J/mol×K	710.65	Joback Method
cpg	502.86	J/mol×K	755.45	Joback Method
cpg	519.89	J/mol×K	800.25	Joback Method
cpg	535.37	J/mol×K	845.04	Joback Method
cpg	549.37	J/mol×K	889.84	Joback Method
cpg	561.99	J/mol×K	934.64	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=C84220&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
ie:	Ionization energy
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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