

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

Other names:	2-Imidazoline, 2-heptadecyl- 2-Heptadecyl-2-imidazoline 2-Heptadecylglyoxalidine Crag fruit fungicide 34 Gliodin Glyoxide 2-Heptadecylimidazoline Glyodin 4,5-Dihydro-2-heptadecyl-1H-imidazole 2-Heptadecyl-4,5-dihydro-1H-imidazole NSC 424 556-22-9
Inchi:	InChI=1S/C20H40N2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-21-18-19-22-20/h2
InchiKey:	NCVGSSQICKMAIA-UHFFFAOYSA-N
Formula:	C20H40N2
SMILES:	CCCCCCCCCCCCCCCCC1=NCCN1
Mol. weight [g/mol]:	308.55
CAS:	105-28-2

Physical Properties

Property code	Value	Unit	Source
gf	386.60	kJ/mol	Joback Method
hf	-220.22	kJ/mol	Joback Method
hfus	55.98	kJ/mol	Joback Method
hvap	74.60	kJ/mol	Joback Method
log10ws	-6.94		Crippen Method
logp	6.250		Crippen Method
mcvol	297.460	ml/mol	McGowan Method
pc	1207.31	kPa	Joback Method
tb	783.34	K	Joback Method
tc	973.50	K	Joback Method
tf	520.15	K	Joback Method
vc	1.169	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	958.31	J/mol×K	783.34	Joback Method
cpg	979.31	J/mol×K	815.03	Joback Method
cpg	999.13	J/mol×K	846.73	Joback Method
cpg	1017.79	J/mol×K	878.42	Joback Method
cpg	1035.34	J/mol×K	910.11	Joback Method
cpg	1051.80	J/mol×K	941.81	Joback Method
cpg	1067.21	J/mol×K	973.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C105282&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

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

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