

1-vinylcyclohexene

Inchi:	InChI=1S/C8H12/c1-2-8-6-4-3-5-7-8/h2,6H,1,3-5,7H2
InchiKey:	SDRZFSPCVYEJTP-UHFFFAOYSA-N
Formula:	C8H12
SMILES:	C=CC1=CCCCC1
Mol. weight [g/mol]:	108.18
CAS:	2622-21-1

Physical Properties

Property code	Value	Unit	Source
gf	156.81	kJ/mol	Joback Method
hf	37.95	kJ/mol	Joback Method
hfus	6.79	kJ/mol	Joback Method
hvap	34.42	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mvol	104.120	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
tb	418.00 ± 3.00	K	NIST Webbook
tb	417.00 ± 4.00	K	NIST Webbook
tc	617.25	K	Joback Method
tf	203.06	K	Joback Method
vc	0.385	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.23	J/mol×K	407.48	Joback Method
cpg	252.48	J/mol×K	582.29	Joback Method
cpg	240.74	J/mol×K	547.33	Joback Method
cpg	228.28	J/mol×K	512.37	Joback Method
cpg	215.06	J/mol×K	477.40	Joback Method
cpg	201.05	J/mol×K	442.44	Joback Method
cpg	263.52	J/mol×K	617.25	Joback Method
dvisc	0.0002539	Paxs	407.48	Joback Method

dvisc	0.0003339	Paxs	373.41	Joback Method
dvisc	0.0004640	Paxs	339.34	Joback Method
dvisc	0.0006939	Paxs	305.27	Joback Method
dvisc	0.0011480	Paxs	271.20	Joback Method
dvisc	0.0021951	Paxs	237.13	Joback Method
dvisc	0.0052169	Paxs	203.06	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2622211&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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