

2-Norbornene, 2-ethylidene

Inchi:	InChI=1S/C10H16/c1-3-9-7-5-6-8-10(9)4-2/h3,7,10H,1,4-6,8H2,2H3/t10-/m1/s1
InchiKey:	WJGCJDCIUHAOFN-SNVBAGLBSA-N
Formula:	C10H16
SMILES:	C=CC1=CCCCC1CC
Mol. weight [g/mol]:	136.23

Physical Properties

Property code	Value	Unit	Source
gf	165.94	kJ/mol	Joback Method
hf	-23.67	kJ/mol	Joback Method
hfus	13.04	kJ/mol	Joback Method
hvap	38.57	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
rinpola	908.00		NIST Webbook
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tb	448.57	K	Joback Method
tc	653.16	K	Joback Method
tf	221.36	K	Joback Method
vc	0.495	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.89	J/molxK	448.57	Joback Method
cpg	347.92	J/molxK	619.06	Joback Method
cpg	333.97	J/molxK	584.96	Joback Method
cpg	319.22	J/molxK	550.86	Joback Method
cpg	303.64	J/molxK	516.77	Joback Method
cpg	287.21	J/molxK	482.67	Joback Method
cpg	361.09	J/molxK	653.16	Joback Method
dvisc	0.0002425	Paxs	448.57	Joback Method

dvisc	0.0003081	Paxs	410.70	Joback Method
dvisc	0.0004109	Paxs	372.83	Joback Method
dvisc	0.0005848	Paxs	334.96	Joback Method
dvisc	0.0009107	Paxs	297.10	Joback Method
dvisc	0.0016143	Paxs	259.23	Joback Method
dvisc	0.0034804	Paxs	221.36	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=R127205&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
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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