

Norbornane, 2-ethylidene-

Inchi:	InChI=1S/C9H14/c1-2-8-5-7-3-4-9(8)6-7/h2,7,9H,3-6H2,1H3/b8-2-
InchiKey:	JURLNXPXCMWCHE-WAPJZHGLSA-N
Formula:	C9H14
SMILES:	CC=C1CC2CCC1C2
Mol. weight [g/mol]:	122.21

Physical Properties

Property code	Value	Unit	Source
gf	179.76	kJ/mol	Joback Method
hf	-13.62	kJ/mol	Joback Method
hfus	13.56	kJ/mol	Joback Method
hvap	36.41	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.753		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinsol	704.00		NIST Webbook
tb	429.71	K	Joback Method
tc	636.77	K	Joback Method
tf	233.91	K	Joback Method
vc	0.428	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.62	J/molxK	429.71	Joback Method
cpg	246.61	J/molxK	464.22	Joback Method
cpg	262.51	J/molxK	498.73	Joback Method
cpg	277.38	J/molxK	533.24	Joback Method
cpg	291.29	J/molxK	567.75	Joback Method
cpg	304.30	J/molxK	602.26	Joback Method
cpg	316.48	J/molxK	636.77	Joback Method
dvisc	0.0007785	Paxs	233.91	Joback Method
dvisc	0.0006907	Paxs	266.54	Joback Method

dvisc	0.0006290	Paxs	299.18	Joback Method
dvisc	0.0005835	Paxs	331.81	Joback Method
dvisc	0.0005486	Paxs	364.44	Joback Method
dvisc	0.0005210	Paxs	397.08	Joback Method
dvisc	0.0004988	Paxs	429.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381764&Units=SI
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

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

Latest version available from:

<https://www.chemeo.com/cid/73-346-7/Norbornane-2-ethylidene.pdf>

Generated by Cheméo on 2024-04-30 19:45:13.409346521 +0000 UTC m=+16795562.329923836.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.