

1-Vinyl naphthalene

Other names:	1-Ethenylnaphthalene
Inchi:	InChI=1S/C12H10/c1-2-10-7-5-8-11-6-3-4-9-12(10)11/h2-9H,1H2
InchiKey:	IGGDKDTUCAWDAN-UHFFFAOYSA-N
Formula:	C12H10
SMILES:	C=Cc1cccc2ccccc12
Mol. weight [g/mol]:	154.21
CAS:	826-74-4

Physical Properties

Property code	Value	Unit	Source
gf	347.43	kJ/mol	Joback Method
hf	250.55	kJ/mol	Joback Method
hfus	16.23	kJ/mol	Joback Method
hvap	46.21	kJ/mol	Joback Method
ie	7.70	eV	NIST Webbook
ie	7.89	eV	NIST Webbook
ie	7.97	eV	NIST Webbook
log10ws	-4.10		Crippen Method
logp	3.483		Crippen Method
mcvol	132.420	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
rinpol	241.80		NIST Webbook
rinpol	241.80		NIST Webbook
rinpol	246.00		NIST Webbook
rinpol	246.00		NIST Webbook
rinpol	1416.00		NIST Webbook
tb	521.28	K	Joback Method
tc	756.97	K	Joback Method
tf	294.88	K	Joback Method
vc	0.502	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	277.80	J/molxK	521.28	Joback Method
cpg	292.33	J/molxK	560.56	Joback Method
cpg	305.74	J/molxK	599.84	Joback Method
cpg	318.10	J/molxK	639.12	Joback Method
cpg	329.51	J/molxK	678.41	Joback Method
cpg	340.04	J/molxK	717.69	Joback Method
cpg	349.78	J/molxK	756.97	Joback Method
dvisc	0.0014610	Paxs	294.88	Joback Method
dvisc	0.0009718	Paxs	332.61	Joback Method
dvisc	0.0007024	Paxs	370.35	Joback Method
dvisc	0.0005391	Paxs	408.08	Joback Method
dvisc	0.0004327	Paxs	445.81	Joback Method
dvisc	0.0003594	Paxs	483.55	Joback Method
dvisc	0.0003067	Paxs	521.28	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	397.70	K	2.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C826744&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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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