

# Naphthalene, 1-(2-propenyl)-

<b>Other names:</b>	Naphthalene, 1-allyl- «alpha»-Allylnaphthalene 1-Allylnaphthalene 1-(2-propenyl)-naphthalene
<b>Inchi:</b>	InChI=1S/C13H12/c1-2-6-11-8-5-9-12-7-3-4-10-13(11)12/h2-5,7-10H,1,6H2
<b>InchiKey:</b>	RJFCFNWLPJRCLR-UHFFFAOYSA-N
<b>Formula:</b>	C13H12
<b>SMILES:</b>	C=CCc1cccc2cccc12
<b>Mol. weight [g/mol]:</b>	168.23
<b>CAS:</b>	2489-86-3

## Physical Properties

Property code	Value	Unit	Source
gf	355.85	kJ/mol	Joback Method
hf	229.91	kJ/mol	Joback Method
hfus	18.82	kJ/mol	Joback Method
hvap	48.44	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	3.568		Crippen Method
mcvol	146.510	ml/mol	McGowan Method
pc	2881.21	kPa	Joback Method
rinpol	253.94		NIST Webbook
rinpol	253.53		NIST Webbook
rinpol	252.95		NIST Webbook
rinpol	253.94		NIST Webbook
tb	539.20	K	NIST Webbook
tc	775.36	K	Joback Method
tf	306.15	K	Joback Method
vc	0.558	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.00	J/molxK	544.16	Joback Method

cpg	338.35	J/mol×K	582.69	Joback Method
cpg	352.56	J/mol×K	621.23	Joback Method
cpg	365.71	J/mol×K	659.76	Joback Method
cpg	377.90	J/mol×K	698.29	Joback Method
cpg	389.19	J/mol×K	736.83	Joback Method
cpg	399.68	J/mol×K	775.36	Joback Method
dvisc	0.0015564	Paxs	306.15	Joback Method
dvisc	0.0010101	Paxs	345.82	Joback Method
dvisc	0.0007165	Paxs	385.49	Joback Method
dvisc	0.0005419	Paxs	425.16	Joback Method
dvisc	0.0004299	Paxs	464.82	Joback Method
dvisc	0.0003536	Paxs	504.49	Joback Method
dvisc	0.0002993	Paxs	544.16	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2489863&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2489863&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/25-979-8/Naphthalene-1-2-propenyl.pdf>

Generated by Cheméo on 2024-04-26 19:21:44.727998128 +0000 UTC m=+16448553.648575445.

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