

# Naphthalene, 1,1'-(1-undecenylidene)bis-

<b>Other names:</b>	1,1-Di(1'-naphthyl)-1-undecene 1,1-Di(1-naphthyl)-1-undecene 1,1-Di(«alpha»-naphthyl)-1-hendecene 1,1-Di(«alpha»-naphthyl)-1-undecene 1,1-Di(Â«alphaÂ»-naphthyl)-1-hendecene 1,1-Di(Â«alphaÂ»-naphthyl)-1-undecene
<b>Inchi:</b>	InChI=1S/C31H34/c1-2-3-4-5-6-7-8-9-22-31(29-23-14-18-25-16-10-12-20-27(25)29)30-2
<b>InchiKey:</b>	CXEYSUXGEZTNBF-UHFFFAOYSA-N
<b>Formula:</b>	C31H34
<b>SMILES:</b>	CCCCCCCCC=C(c1cccc2cccc12)c1cccc2cccc12
<b>Mol. weight [g/mol]:</b>	406.60
<b>CAS:</b>	56247-76-8

## Physical Properties

Property code	Value	Unit	Source
gf	700.67	kJ/mol	Joback Method
hf	256.52	kJ/mol	Joback Method
hfus	56.28	kJ/mol	Joback Method
hvap	93.79	kJ/mol	Joback Method
log10ws	-11.39		Crippen Method
logp	9.565		Crippen Method
mcvol	356.910	ml/mol	McGowan Method
pc	1100.08	kPa	Joback Method
tb	1014.00	K	Joback Method
tc	1254.42	K	Joback Method
tf	563.37	K	Joback Method
vc	1.381	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1169.98	J/molxK	1014.00	Joback Method
cpg	1189.23	J/molxK	1054.07	Joback Method
cpg	1208.00	J/molxK	1094.14	Joback Method

cpg	1226.53	J/mol×K	1134.21	Joback Method
cpg	1245.02	J/mol×K	1174.28	Joback Method
cpg	1263.70	J/mol×K	1214.35	Joback Method
cpg	1282.79	J/mol×K	1254.42	Joback Method
hvapt	109.30	kJ/mol	553.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.37606e+01
Coeff. B	-1.53044e+04
Coeff. C	6.37220e+01
Temperature range (K), min.	588.28
Temperature range (K), max.	765.82

## Sources

<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=C56247768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56247768&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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