

# Naphthalene, (1-methylethyl)-

<b>Other names:</b>	isopropylnaphthalene
<b>Inchi:</b>	InChI=1S/C13H14/c1-10(2)12-9-5-7-11-6-3-4-8-13(11)12/h3-10H,1-2H3
<b>InchiKey:</b>	PMPBFICDXLLSRM-UHFFFAOYSA-N
<b>Formula:</b>	C13H14
<b>SMILES:</b>	CC(C)c1cccc2cccc12
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	29253-36-9

## Physical Properties

Property code	Value	Unit	Source
gf	265.57	kJ/mol	Joback Method
hf	99.20	kJ/mol	Joback Method
hfus	16.57	kJ/mol	Joback Method
hvap	48.72	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.963		Crippen Method
mcvol	150.810	ml/mol	McGowan Method
pc	2778.85	kPa	Joback Method
rinpol	248.90		NIST Webbook
tb	541.30 ± 0.40	K	NIST Webbook
tc	778.34	K	Joback Method
tf	292.91	K	Joback Method
vc	0.572	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.66	J/mol×K	547.04	Joback Method
cpg	414.06	J/mol×K	739.79	Joback Method
cpg	401.80	J/mol×K	701.24	Joback Method
cpg	388.61	J/mol×K	662.69	Joback Method
cpg	374.41	J/mol×K	624.14	Joback Method
cpg	359.12	J/mol×K	585.59	Joback Method
cpg	425.45	J/mol×K	778.34	Joback Method

dvisc	0.0002758	Paxs	547.04	Joback Method
dvisc	0.0003344	Paxs	504.68	Joback Method
dvisc	0.0004201	Paxs	462.33	Joback Method
dvisc	0.0005526	Paxs	419.98	Joback Method
dvisc	0.0007731	Paxs	377.62	Joback Method
dvisc	0.0011772	Paxs	335.26	Joback Method
dvisc	0.0020244	Paxs	292.91	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C29253369&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29253369&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>
<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>

## 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
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/70-214-6/Naphthalene-1-methylethyl.pdf>

Generated by Cheméo on 2025-12-05 08:25:46.351860983 +0000 UTC m=+4671343.881901642.

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