

# Naphthalene, decahydro-1,6-bis(methylene)-4-(1-methylethyl)-, (4«alpha»,4a«alpha»,8a«alpha»)-

Other names:

«epsilon»-Muurolene

Inchi: InChI=1S C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h10,13-15H,3-9H2,1-2H3

InchiKey: NOLWRMQDWRAODO-UHFFFAOYSA-N

Formula: C15H24

SMILES: C=C1CCC2C(=C)CCC(C(C)C)C2C1

Mol. weight [g/mol]: 204.35

CAS: 30021-46-6

## Physical Properties

Property code	Value	Unit	Source
gf	244.53	kJ/mol	Joback Method
hf	-89.11	kJ/mol	Joback Method
hfus	17.71	kJ/mol	Joback Method
hvap	49.12	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.581		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
rinpol	1464.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1458.80		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1457.00		NIST Webbook
rinpol	1446.00		NIST Webbook
ripol	1714.00		NIST Webbook
ripol	1713.00		NIST Webbook
ripol	1676.00		NIST Webbook
tb	566.37	K	Joback Method
tc	779.32	K	Joback Method
tf	288.73	K	Joback Method
vc	0.719	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.92	J/molxK	566.37	Joback Method
cpg	523.12	J/molxK	601.86	Joback Method
cpg	545.00	J/molxK	637.35	Joback Method
cpg	565.61	J/molxK	672.85	Joback Method
cpg	584.99	J/molxK	708.34	Joback Method
cpg	603.18	J/molxK	743.83	Joback Method
cpg	620.22	J/molxK	779.32	Joback Method
dvisc	0.0023414	Paxs	288.73	Joback Method
dvisc	0.0014305	Paxs	335.00	Joback Method
dvisc	0.0009850	Paxs	381.28	Joback Method
dvisc	0.0007353	Paxs	427.55	Joback Method
dvisc	0.0005812	Paxs	473.82	Joback Method
dvisc	0.0004790	Paxs	520.10	Joback Method
dvisc	0.0004074	Paxs	566.37	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C30021466&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C30021466&amp;Units=SI</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>ripol:</b>	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

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