

# 2-ethyl-3-methylnaphthalene

<b>Inchi:</b>	InChI=1S/C13H14/c1-3-11-9-13-7-5-4-6-12(13)8-10(11)2/h4-9H,3H2,1-2H3
<b>InchiKey:</b>	OKUXCOASJUSADT-UHFFFAOYSA-N
<b>Formula:</b>	C13H14
<b>SMILES:</b>	CCc1cc2ccccc2cc1C
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	31032-94-7

## Physical Properties

Property code	Value	Unit	Source
af	0.4880		KDB
gf	258.38	kJ/mol	Joback Method
hf	93.01	kJ/mol	Joback Method
hfus	19.71	kJ/mol	Joback Method
hvap	49.77	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	3.711		Crippen Method
mcvol	150.810	ml/mol	McGowan Method
pc	2710.00	kPa	KDB
tb	550.20	K	KDB
tc	776.40	K	KDB
tf	344.00	K	KDB
vc	0.578	m <sup>3</sup> /kmol	KDB
zc	0.2424370		KDB

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.22	J/mol×K	552.46	Joback Method
cpg	357.89	J/mol×K	590.33	Joback Method
cpg	372.52	J/mol×K	628.20	Joback Method
cpg	386.18	J/mol×K	666.07	Joback Method
cpg	398.93	J/mol×K	703.95	Joback Method
cpg	410.84	J/mol×K	741.82	Joback Method
cpg	421.96	J/mol×K	779.69	Joback Method

dvisc	0.0013320	Paxs	320.43	Joback Method
dvisc	0.0008996	Paxs	359.10	Joback Method
dvisc	0.0006558	Paxs	397.77	Joback Method
dvisc	0.0005056	Paxs	436.45	Joback Method
dvisc	0.0004066	Paxs	475.12	Joback Method
dvisc	0.0003379	Paxs	513.79	Joback Method
dvisc	0.0002882	Paxs	552.46	Joback Method

## Sources

<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=C31032947&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31032947&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>KDB:</b>	<a href="https://www.cheric.org/files/research/kdb/mol/mol784.mol">https://www.cheric.org/files/research/kdb/mol/mol784.mol</a>

## Legend

<b>af:</b>	Acentric Factor
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume
<b>zc:</b>	Critical Compressibility

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