

# trans-8-Methoxy-1,2,3,4,4a,5,6,8a-octahydronaphth

Inchi:	InChI=1S/C11H18O/c1-12-11-8-4-6-9-5-2-3-7-10(9)11/h8-10H,2-7H2,1H3
InchiKey:	BTLRDSPISZYIIT-UHFFFAOYSA-N
Formula:	C11H18O
SMILES:	COC1=CCCC2CCCCC12
Mol. weight [g/mol]:	166.26
CAS:	101555-40-2

## Physical Properties

Property code	Value	Unit	Source
gf	30.17	kJ/mol	Joback Method
hf	-235.32	kJ/mol	Joback Method
hfus	14.14	kJ/mol	Joback Method
hvap	43.96	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.117		Crippen Method
mcvol	145.700	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
tb	508.20	K	Joback Method
tc	728.09	K	Joback Method
tf	271.04	K	Joback Method
vc	0.537	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.79	J/molxK	508.20	Joback Method
cpg	367.44	J/molxK	544.85	Joback Method
cpg	386.91	J/molxK	581.50	Joback Method
cpg	405.25	J/molxK	618.15	Joback Method
cpg	422.49	J/molxK	654.80	Joback Method
cpg	438.66	J/molxK	691.44	Joback Method
cpg	453.80	J/molxK	728.09	Joback Method
dvisc	0.0023530	Paxs	271.04	Joback Method
dvisc	0.0013757	Paxs	310.57	Joback Method

dvisc	0.0009079	Paxs	350.09	Joback Method
dvisc	0.0006519	Paxs	389.62	Joback Method
dvisc	0.0004975	Paxs	429.15	Joback Method
dvisc	0.0003974	Paxs	468.67	Joback Method
dvisc	0.0003288	Paxs	508.20	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C101555402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C101555402&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>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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