

# Thujol

**Other names:**

Thujyl alcohol

Thujanol

(1«alpha»,3«alpha»,4«alpha»,5«alpha»)-4-methyl-1-(1-methylethyl)bicyclo[3.1.0]hexan-

**Inchi:**

InChI=1S/C10H18O/c1-6(2)10-4-8(10)7(3)9(11)5-10/h6-9,11H,4-5H2,1-3H3/t7?,8?,9-,10?

**InchiKey:**

DZVXRFMREAADPP-OWTMBLHMSA-N

**Formula:**

C10H18O

**SMILES:**

CC1C(O)CC2(C(C)C)CC12

**Mol. weight [g/mol]:**

154.25

**CAS:**

35732-37-7

## Physical Properties

Property code	Value	Unit	Source
gf	-5.35	kJ/mol	Joback Method
hf	-287.08	kJ/mol	Joback Method
hfus	14.34	kJ/mol	Joback Method
hvap	52.20	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.049		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
rinpol	1145.00		NIST Webbook
rinpol	1125.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1166.00		NIST Webbook
rinpol	1095.00		NIST Webbook
rinpol	1139.00		NIST Webbook
rinpol	1165.00		NIST Webbook
rinpol	1123.00		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1130.00		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1146.00		NIST Webbook
rinpol	1100.00		NIST Webbook
ripol	1620.00		NIST Webbook
ripol	1679.00		NIST Webbook
ripol	1664.00		NIST Webbook

ripol	1638.00		NIST Webbook
ripol	1620.00		NIST Webbook
ripol	1623.00		NIST Webbook
tb	524.32	K	Joback Method
tc	714.97	K	Joback Method
tf	299.58	K	Joback Method
vc	0.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.41	J/mol×K	524.32	Joback Method
cpg	370.07	J/mol×K	556.10	Joback Method
cpg	384.74	J/mol×K	587.87	Joback Method
cpg	398.54	J/mol×K	619.65	Joback Method
cpg	411.57	J/mol×K	651.42	Joback Method
cpg	423.94	J/mol×K	683.20	Joback Method
cpg	435.75	J/mol×K	714.97	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=C35732377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35732377&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>

## 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>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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