

# Tricyclo[8.3.0.0(4,9)]dodecane, isomer # 4

**Inchi:** InChI=1S/C13H22/c1-2-6-12-10(4-1)8-9-11-5-3-7-13(11)12/h10-13H,1-9H2  
**InchiKey:** DDBLMNQGQGUXZOS-UHFFFAOYSA-N  
**Formula:** C13H22  
**SMILES:** C1CCC2C(C1)CCC1CCCC12  
**Mol. weight [g/mol]:** 178.31

## Physical Properties

Property code	Value	Unit	Source
gf	184.72	kJ/mol	Joback Method
hf	-138.23	kJ/mol	Joback Method
hfus	16.50	kJ/mol	Joback Method
hvap	44.65	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	4.003		Crippen Method
mcvol	161.450	ml/mol	McGowan Method
pc	2477.65	kPa	Joback Method
ripol	1468.00		NIST Webbook
ripol	1444.00		NIST Webbook
ripol	1647.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1647.00		NIST Webbook
tb	529.47	K	Joback Method
tc	757.82	K	Joback Method
tf	271.77	K	Joback Method
vc	0.602	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.40	J/molxK	529.47	Joback Method
cpg	534.62	J/molxK	719.76	Joback Method
cpg	515.09	J/molxK	681.70	Joback Method
cpg	494.09	J/molxK	643.64	Joback Method
cpg	471.54	J/molxK	605.59	Joback Method

cpg	447.35	J/molxK	567.53	Joback Method
cpg	552.80	J/molxK	757.82	Joback Method
dvisc	0.0008444	Paxs	529.47	Joback Method
dvisc	0.0009322	Paxs	486.52	Joback Method
dvisc	0.0010489	Paxs	443.57	Joback Method
dvisc	0.0012105	Paxs	400.62	Joback Method
dvisc	0.0014458	Paxs	357.67	Joback Method
dvisc	0.0018128	Paxs	314.72	Joback Method
dvisc	0.0024413	Paxs	271.77	Joback Method

## Sources

<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=R524646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R524646&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>

## 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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