

# 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans-

Inchi:	InChI=1S/C15H28/c1-13(2)9-11-12(10-13)15(5,6)8-7-14(11,3)4/h11-12H,7-10H2,1-6H3/t
InchiKey:	RKCBUJRCTQZATH-RYUDHWBXSA-N
Formula:	C15H28
SMILES:	CC1(C)CC2C(C1)C(C)(C)CCC2(C)C
Mol. weight [g/mol]:	208.38
CAS:	54832-83-6

## Physical Properties

Property code	Value	Unit	Source
gf	121.02	kJ/mol	Joback Method
hf	-241.11	kJ/mol	Joback Method
hfus	8.89	kJ/mol	Joback Method
hvap	44.95	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.885		Crippen Method
mcvol	200.490	ml/mol	McGowan Method
pc	1911.91	kPa	Joback Method
rinpol	1427.10		NIST Webbook
rinpol	1427.10		NIST Webbook
rinpol	1427.10		NIST Webbook
tb	555.60	K	Joback Method
tc	778.34	K	Joback Method
tf	343.11	K	Joback Method
vc	0.756	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	535.95	J/molxK	555.60	Joback Method
cpg	560.92	J/molxK	592.72	Joback Method
cpg	584.25	J/molxK	629.85	Joback Method
cpg	606.28	J/molxK	666.97	Joback Method
cpg	627.33	J/molxK	704.09	Joback Method
cpg	647.74	J/molxK	741.21	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=C54832836&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54832836&amp;Units=SI</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>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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