

# 1H-Indene, 5,5'-(1,10-decanediyl)bis[octahydro-

Other names:

1,10-Di(5'-hexahydroindanyl)decane

1,10-Di-5-(hexahydroindanyl)decane

1H-Indene, 5,5'-(1,10-decanediyl)bis\*octahydro-

Inchi: InChI=1S/C28H50/c1(3-5-7-11-23-17-19-25-13-9-15-27(25)21-23)2-4-6-8-12-24-18-20-2

InchiKey: SBMVKNOBLWIPAU-UHFFFAOYSA-N

Formula: C28H50

SMILES: C(CCCCCC1CCC2CCCC2C1)CCCCC1CCC2CCCC2C1

Mol. weight [g/mol]: 386.70

CAS: 55334-71-9

## Physical Properties

Property code	Value	Unit	Source
gf	339.86	kJ/mol	Joback Method
hf	-407.69	kJ/mol	Joback Method
hfus	50.36	kJ/mol	Joback Method
hvap	77.99	kJ/mol	Joback Method
log10ws	-9.67		Crippen Method
logp	9.320		Crippen Method
mcvol	361.940	ml/mol	McGowan Method
pc	917.16	kPa	Joback Method
tb	883.28	K	Joback Method
tc	1094.87	K	Joback Method
tf	447.48	K	Joback Method
vc	1.381	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1325.73	J/molxK	883.28	Joback Method
cpg	1352.06	J/molxK	918.54	Joback Method
cpg	1376.75	J/molxK	953.81	Joback Method
cpg	1399.93	J/molxK	989.07	Joback Method
cpg	1421.72	J/molxK	1024.34	Joback Method
cpg	1442.25	J/molxK	1059.60	Joback Method

cpg	1461.66	J/mol×K	1094.87	Joback Method
dvisc	0.0037881	Paxs	447.48	Joback Method
dvisc	0.0022506	Paxs	520.11	Joback Method
dvisc	0.0015191	Paxs	592.75	Joback Method
dvisc	0.0011172	Paxs	665.38	Joback Method
dvisc	0.0008729	Paxs	738.01	Joback Method
dvisc	0.0007129	Paxs	810.65	Joback Method
dvisc	0.0006019	Paxs	883.28	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=C55334719&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55334719&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>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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