

# 1H-Indene, 5,5'-(1,10-decanediyl)bis[2,3-dihydro-

Other names:

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

1H-Indene, 5,5'-(1,10-decanediyl)bis\*2,3-dihydro-

Inchi:

InChI=1S/C28H38/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:

JBKAJYLVPBVSBI-UHFFFAOYSA-N

Formula:

C28H38

SMILES:

c1cc2c(cc1CCCCCCCCCc1ccc3c(c1)CCC3)CCC2

Mol. weight [g/mol]:

374.60

CAS:

55282-70-7

## Physical Properties

Property code	Value	Unit	Source
gf	508.10	kJ/mol	Joback Method
hf	-7.79	kJ/mol	Joback Method
hfus	48.93	kJ/mol	Joback Method
hvap	85.57	kJ/mol	Joback Method
log10ws	-9.40		Crippen Method
logp	7.570		Crippen Method
mcvol	336.140	ml/mol	McGowan Method
pc	1127.59	kPa	Joback Method
tb	936.14	K	Joback Method
tc	1159.88	K	Joback Method
tf	552.60	K	Joback Method
vc	1.304	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.52	J/molxK	936.14	Joback Method
cpg	1221.43	J/molxK	1122.59	Joback Method
cpg	1203.47	J/molxK	1085.30	Joback Method
cpg	1185.16	J/molxK	1048.01	Joback Method
cpg	1166.35	J/molxK	1010.72	Joback Method
cpg	1146.85	J/molxK	973.43	Joback Method
cpg	1239.21	J/molxK	1159.88	Joback Method

dvisc	0.0002325	Paxs	936.14	Joback Method
dvisc	0.0002778	Paxs	872.22	Joback Method
dvisc	0.0003413	Paxs	808.29	Joback Method
dvisc	0.0004345	Paxs	744.37	Joback Method
dvisc	0.0005788	Paxs	680.45	Joback Method
dvisc	0.0008183	Paxs	616.52	Joback Method
dvisc	0.0012534	Paxs	552.60	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C55282707&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55282707&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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