

# 1H-Indene, 1-hexadecyl-2,3-dihydro-

<b>Other names:</b>	1-n-Hexadecylindan 1-n-Hexadecyl-(2,3-dihydroindene) 2,3-Dihydro-1-hexadecyl-1H-indene 1-(1-Indanyl)hexadecane 1-Hexadecyl-2,3-dihydro-1H-indene
<b>Inchi:</b>	InChI=1S/C25H42/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-18-23-21-22-24-19-16-17-20-2
<b>InchiKey:</b>	QMGOXEWNQKNUQO-UHFFFAOYSA-N
<b>Formula:</b>	C25H42
<b>SMILES:</b>	CCCCCCCCCCCCCCCC1CCc2ccccc21
<b>Mol. weight [g/mol]:</b>	342.60
<b>CAS:</b>	55334-29-7

## Physical Properties

Property code	Value	Unit	Source
gf	323.15	kJ/mol	Joback Method
hf	-261.47	kJ/mol	Joback Method
hfus	52.29	kJ/mol	Joback Method
hvap	74.09	kJ/mol	Joback Method
log10ws	-9.21		Crippen Method
logp	8.588		Crippen Method
mcvol	328.490	ml/mol	McGowan Method
pc	993.88	kPa	Joback Method
tb	809.80	K	Joback Method
tc	1001.64	K	Joback Method
tf	428.39	K	Joback Method
vc	1.284	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1054.75	J/molxK	809.80	Joback Method
cpg	1076.18	J/molxK	841.77	Joback Method
cpg	1096.49	J/molxK	873.75	Joback Method
cpg	1115.77	J/molxK	905.72	Joback Method

cpg	1134.08	J/molxK	937.70	Joback Method
cpg	1151.50	J/molxK	969.67	Joback Method
cpg	1168.11	J/molxK	1001.64	Joback Method
dvisc	0.0016213	Paxs	428.39	Joback Method
dvisc	0.0008526	Paxs	491.96	Joback Method
dvisc	0.0005194	Paxs	555.53	Joback Method
dvisc	0.0003503	Paxs	619.10	Joback Method
dvisc	0.0002543	Paxs	682.66	Joback Method
dvisc	0.0001949	Paxs	746.23	Joback Method
dvisc	0.0001558	Paxs	809.80	Joback Method

## Sources

<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=C55334297&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55334297&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>

## 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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