

# 2-Methylindene

<b>Other names:</b>	1H-Indene, 2-methyl- 2-METHYL-1H-INDENE Indene, 2-methyl-
<b>Inchi:</b>	InChI=1S/C10H10/c1-8-6-9-4-2-3-5-10(9)7-8/h2-6H,7H2,1H3
<b>InchiKey:</b>	YSAXEHWHSLANOM-UHFFFAOYSA-N
<b>Formula:</b>	C10H10
<b>SMILES:</b>	CC1=Cc2ccccc2C1
<b>Mol. weight [g/mol]:</b>	130.19
<b>CAS:</b>	2177-47-1

## Physical Properties

Property code	Value	Unit	Source
gf	224.89	kJ/mol	Joback Method
hf	114.78	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	41.97	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.646		Crippen Method
mcvol	112.840	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
rinpol	192.61		NIST Webbook
rinpol	184.40		NIST Webbook
rinpol	184.40		NIST Webbook
rinpol	1056.00		NIST Webbook
rinpol	1057.70		NIST Webbook
rinpol	1054.10		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1057.70		NIST Webbook
rinpol	184.70		NIST Webbook
rinpol	1054.10		NIST Webbook
tb	475.41	K	Joback Method
tc	702.69	K	Joback Method
tf	276.86	K	Joback Method
vc	0.431	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.56	J/molxK	475.41	Joback Method
cpg	240.30	J/molxK	513.29	Joback Method
cpg	253.04	J/molxK	551.17	Joback Method
cpg	264.84	J/molxK	589.05	Joback Method
cpg	275.79	J/molxK	626.93	Joback Method
cpg	285.94	J/molxK	664.81	Joback Method
cpg	295.38	J/molxK	702.69	Joback Method
dvisc	0.0012738	Paxs	276.86	Joback Method
dvisc	0.0009289	Paxs	309.95	Joback Method
dvisc	0.0007199	Paxs	343.04	Joback Method
dvisc	0.0005835	Paxs	376.13	Joback Method
dvisc	0.0004893	Paxs	409.23	Joback Method
dvisc	0.0004212	Paxs	442.32	Joback Method
dvisc	0.0003703	Paxs	475.41	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	336.70	K	2.70	NIST Webbook

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.46511e+01
Coeff. B	-4.00919e+03
Coeff. C	-7.44370e+01
Temperature range (K), min.	353.56
Temperature range (K), max.	503.70

Information

Value

Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	8.50029e+01
Coeff. B	-8.85918e+03
Coeff. C	-1.01245e+01
Coeff. D	4.66607e-06
Temperature range (K), min.	353.15
Temperature range (K), max.	684.00

## 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>KDB:</b>	<a href="https://www.thermopedia.com/doc/thermoprop/kdb/mol/mol754.mol">https://www.thermopedia.com/doc/thermoprop/kdb/mol/mol754.mol</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=C2177471&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2177471&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>KDB Vapor Pressure Data:</b>	<a href="https://www.thermopedia.com/doc/thermoprop/kdb/hcprop/showprop.php?cmpid=754">https://www.thermopedia.com/doc/thermoprop/kdb/hcprop/showprop.php?cmpid=754</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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