

# Ethanone, 1-(2,3-dihydro-1H-inden-5-yl)-

<b>Other names:</b>	Ketone, 5-indanyl methyl 5-Acetyllindan 5-Acetyllindane 1-Indan-1-ylethanone
<b>Inchi:</b>	InChI=1S/C11H12O/c1-8(12)10-7-6-9-4-2-3-5-11(9)10/h2-5,10H,6-7H2,1H3
<b>InchiKey:</b>	ZDDDIYOBABOJYAZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H12O
<b>SMILES:</b>	CC(=O)C1CCc2ccccc21
<b>Mol. weight [g/mol]:</b>	160.21
<b>CAS:</b>	4228-10-8

## Physical Properties

Property code	Value	Unit	Source
gf	76.35	kJ/mol	Joback Method
hf	-85.09	kJ/mol	Joback Method
hfus	17.63	kJ/mol	Joback Method
hvap	49.68	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.305		Crippen Method
mcvol	132.800	ml/mol	McGowan Method
pc	3210.04	kPa	Joback Method
rinpol	1546.00		NIST Webbook
tb	543.35	K	Joback Method
tc	772.49	K	Joback Method
tf	320.54	K	Joback Method
vc	0.506	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.08	J/mol×K	543.35	Joback Method
cpg	373.39	J/mol×K	734.30	Joback Method
cpg	362.02	J/mol×K	696.11	Joback Method
cpg	349.78	J/mol×K	657.92	Joback Method

cpg	336.59	J/molxK	619.73	Joback Method
cpg	322.38	J/molxK	581.54	Joback Method
cpg	383.95	J/molxK	772.49	Joback Method
dvisc	0.0005131	Paxs	543.35	Joback Method
dvisc	0.0005920	Paxs	506.21	Joback Method
dvisc	0.0006986	Paxs	469.08	Joback Method
dvisc	0.0008482	Paxs	431.94	Joback Method
dvisc	0.0010681	Paxs	394.81	Joback Method
dvisc	0.0014109	Paxs	357.68	Joback Method
dvisc	0.0019881	Paxs	320.54	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	415.00	K	2.00	NIST Webbook

## 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=C4228108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4228108&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>
<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>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
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/77-565-0/Ethanone-1-2-3-dihydro-1H-inden-5-yl.pdf>

Generated by Cheméo on 2024-04-29 03:25:00.863579148 +0000 UTC m=+16650349.784156463.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.