

# Indane-5-carboxaldehyde

<b>Inchi:</b>	InChI=1S/C10H10O/c11-7-8-4-5-9-2-1-3-10(9)6-8/h4-7H,1-3H2
<b>InchiKey:</b>	YNGGRNROMJXLCP-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O
<b>SMILES:</b>	O=Cc1ccc2c(c1)CCC2
<b>Mol. weight [g/mol]:</b>	146.19

## Physical Properties

Property code	Value	Unit	Source
gf	95.41	kJ/mol	Joback Method
hf	-28.58	kJ/mol	Joback Method
hfus	14.27	kJ/mol	Joback Method
hvap	48.40	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	1.988		Crippen Method
mcvol	118.710	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
ripol	1320.00		NIST Webbook
ripol	1320.00		NIST Webbook
ripol	1320.00		NIST Webbook
ripol	2042.00		NIST Webbook
ripol	2042.00		NIST Webbook
tb	524.91	K	Joback Method
tc	753.83	K	Joback Method
tf	318.10	K	Joback Method
vc	0.463	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.44	J/mol×K	524.91	Joback Method
cpg	274.69	J/mol×K	563.06	Joback Method
cpg	286.96	J/mol×K	601.22	Joback Method
cpg	298.33	J/mol×K	639.37	Joback Method
cpg	308.87	J/mol×K	677.52	Joback Method

cpg	318.65	J/molxK	715.67	Joback Method
cpg	327.74	J/molxK	753.83	Joback Method
dvisc	0.0020037	Paxs	318.10	Joback Method
dvisc	0.0014257	Paxs	352.57	Joback Method
dvisc	0.0010778	Paxs	387.04	Joback Method
dvisc	0.0008530	Paxs	421.50	Joback Method
dvisc	0.0006993	Paxs	455.97	Joback Method
dvisc	0.0005896	Paxs	490.44	Joback Method
dvisc	0.0005083	Paxs	524.91	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=R324966&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R324966&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>ripol:</b>	Polar retention indices
<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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