

# 1-Cyclohexene-1-carboxaldehyde, 4-(1-methylethyl)-

Other names:	Phellandral 4-Isopropyl-1-cyclohexene-1-carbaldehyde 4-[1-Methylethyl]-1-cyclohexene-1-carboxaldehyde p-Menth-1-en-7-al 4-isopropylcyclohexenecarbaldehyde
Inchi:	InChI=1S/C10H16O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,7-8,10H,4-6H2,1-2H3
InchiKey:	AEVLWICMAHGAMS-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC(C)C1CC=C(C=O)CC1
Mol. weight [g/mol]:	152.23
CAS:	21391-98-0

## Physical Properties

Property code	Value	Unit	Source
gf	-23.86	kJ/mol	Joback Method
hf	-239.96	kJ/mol	Joback Method
hfus	13.09	kJ/mol	Joback Method
hvap	45.57	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.568		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2859.68	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1287.00		NIST Webbook
rinpol	1250.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1272.00		NIST Webbook
rinpol	1237.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1274.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1276.00		NIST Webbook
rinpol	1276.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1281.00		NIST Webbook

rinpol	1281.00		NIST Webbook
rinpol	1279.00		NIST Webbook
rinpol	1298.00		NIST Webbook
rinpol	1280.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1259.00		NIST Webbook
rinpol	1255.00		NIST Webbook
rinpol	1239.00		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1258.00		NIST Webbook
rinpol	1271.20		NIST Webbook
rinpol	1281.00		NIST Webbook
rinpol	1280.00		NIST Webbook
rinpol	1277.00		NIST Webbook
rinpol	1267.00		NIST Webbook
rinpol	1271.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1271.00		NIST Webbook
rinpol	1281.00		NIST Webbook
rinpol	1252.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1695.00		NIST Webbook
ripol	1715.00		NIST Webbook
ripol	1696.00		NIST Webbook
ripol	1700.00		NIST Webbook
ripol	1710.00		NIST Webbook
ripol	1770.00		NIST Webbook
ripol	1720.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1741.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1695.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1744.00		NIST Webbook
ripol	1759.00		NIST Webbook
tb	500.11	K	Joback Method
tc	710.00	K	Joback Method
tf	250.12	K	Joback Method
vc	0.525	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.82	J/molxK	500.11	Joback Method
cpg	388.15	J/molxK	675.02	Joback Method
cpg	374.78	J/molxK	640.04	Joback Method
cpg	360.59	J/molxK	605.06	Joback Method
cpg	345.55	J/molxK	570.07	Joback Method
cpg	329.63	J/molxK	535.09	Joback Method
cpg	400.72	J/molxK	710.00	Joback Method
dvisc	0.0002874	Paxs	500.11	Joback Method
dvisc	0.0003747	Paxs	458.44	Joback Method
dvisc	0.0005151	Paxs	416.78	Joback Method
dvisc	0.0007601	Paxs	375.12	Joback Method
dvisc	0.0012360	Paxs	333.45	Joback Method
dvisc	0.0023094	Paxs	291.78	Joback Method
dvisc	0.0053140	Paxs	250.12	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=C21391980&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21391980&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.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

Latest version available from:

<https://www.cheméo.com/cid/62-500-7/1-Cyclohexene-1-carboxaldehyde-4-1-methylethyl.pdf>

Generated by Cheméo on 2024-11-02 02:29:58.321601919 +0000 UTC m=+5095460.958571166.

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