

# 3-Cyclohexene-1-carboxylic acid

<b>Other names:</b>	«delta»3-Cyclohexenecarboxylic acid «delta»3-Cyclohexenylcarboxylic acid 1-Cyclohexene-4-carboxylic acid 3-Cyclohexenecarboxylic acid 1,2,3,6-Tetrahydrobenzoic acid Kyselina 1,2,5,6-tetrahydrobenzoova NSC 44712 NSC 44883 cyclohex-3-ene-1-carboxylic acid
<b>Inchi:</b>	InChI=1S/C7H10O2/c8-7(9)6-4-2-1-3-5-6/h1-2,6H,3-5H2,(H,8,9)
<b>InchiKey:</b>	VUSWCWPCANWBFG-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O2
<b>SMILES:</b>	O=C(O)C1CC=CCC1
<b>Mol. weight [g/mol]:</b>	126.15
<b>CAS:</b>	4771-80-6

## Physical Properties

Property code	Value	Unit	Source
gf	-203.27	kJ/mol	Joback Method
hf	-340.52	kJ/mol	Joback Method
hfus	12.63	kJ/mol	Joback Method
hvap	55.32	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.427		Crippen Method
mvol	101.770	ml/mol	McGowan Method
pc	4480.21	kPa	Joback Method
ripol	1360.00		NIST Webbook
tb	524.32	K	Joback Method
tc	728.64	K	Joback Method
tf	287.54	K	Joback Method
vc	0.371	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.18	J/mol×K	524.32	Joback Method
cpg	243.89	J/mol×K	558.37	Joback Method
cpg	254.93	J/mol×K	592.43	Joback Method
cpg	265.31	J/mol×K	626.48	Joback Method
cpg	275.06	J/mol×K	660.53	Joback Method
cpg	284.19	J/mol×K	694.59	Joback Method
cpg	292.72	J/mol×K	728.64	Joback Method
dvisc	0.0181175	Paxs	287.54	Joback Method
dvisc	0.0052223	Paxs	327.00	Joback Method
dvisc	0.0019678	Paxs	366.47	Joback Method
dvisc	0.0008964	Paxs	405.93	Joback Method
dvisc	0.0004694	Paxs	445.39	Joback Method
dvisc	0.0002731	Paxs	484.86	Joback Method
dvisc	0.0001724	Paxs	524.32	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	402.50 ± 1.50	K	2.40	NIST Webbook

## 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>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=C4771806&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4771806&amp;Units=SI</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>ripol:</b>	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

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