

# Cyclohexaneethanol, acetate

<b>Other names:</b>	2-Cyclohexylethyl acetate Acetic acid, cyclohexylethyl ester Cyclohexane ethyl acetate Cyclohexylethyl acetate Ethylcyclohexyl acetate Hexahydrophenyl ethyl acetate
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-9(11)12-8-7-10-5-3-2-4-6-10/h10H,2-8H2,1H3
<b>InchiKey:</b>	NOTFZGFABLVITIG-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CC(=O)OCCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	21722-83-8

## Physical Properties

Property code	Value	Unit	Source
gf	-176.15	kJ/mol	Joback Method
hf	-440.21	kJ/mol	Joback Method
hfus	16.28	kJ/mol	Joback Method
hvap	47.44	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.520		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2693.00	kPa	Joback Method
rinpol	1233.00		NIST Webbook
rinpol	1233.00		NIST Webbook
ripol	1591.00		NIST Webbook
ripol	1591.00		NIST Webbook
ripol	1591.00		NIST Webbook
tb	524.04	K	Joback Method
tc	729.39	K	Joback Method
tf	282.00	K	Joback Method
vc	0.552	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.16	J/mol×K	558.27	Joback Method
cpg	390.11	J/mol×K	592.49	Joback Method
cpg	406.18	J/mol×K	626.72	Joback Method
cpg	421.39	J/mol×K	660.94	Joback Method
cpg	435.73	J/mol×K	695.17	Joback Method
cpg	355.31	J/mol×K	524.04	Joback Method
cpg	449.24	J/mol×K	729.39	Joback Method
dvisc	0.0025400	Paxs	300.00	Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material)
dvisc	0.0020700	Paxs	310.00	Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material)
dvisc	0.0017200	Paxs	320.00	Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material)
dvisc	0.0014600	Paxs	330.00	Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material)
dvisc	0.0012600	Paxs	340.00	Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material)

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	370.70	K	2.00	NIST Webbook

## Sources

NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C21722838&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21722838&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Solubility of fragrance raw materials in water: Experimental study, Temperature and Composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material): McGowan Method:	<a href="https://www.doi.org/10.1016/j.jct.2010.07.013">https://www.doi.org/10.1016/j.jct.2010.07.013</a>
Temperature and Composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material): McGowan Method:	<a href="https://www.doi.org/10.1016/j.tca.2009.02.013">https://www.doi.org/10.1016/j.tca.2009.02.013</a>
Temperature and Composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material): McGowan Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
Temperature and Composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material): McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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