

3-Cyclohexene-1-acetaldehyde, «alpha»,4-dimethyl-

Other names:	«alpha»,4-Dimethyl-3-cyclohexene-1-acetaldehyde p-Menth-1-en-9-al 1-p-Menthen-9-al 2-(4-Methyl-3-cyclohexen-1-yl)propanal «alpha»,4-Dimethyl-3-cyclohexen-1-acetaldehyde 1-p-Menthene-9-al Carvomenthenal p-Menth-1-en-9-al (Isomer 2) p-Menth-1-en-9-al (Isomer 1) «alpha»,4-dimethylcyclohex-3-ene-1-acetaldehyde
Inchi:	InChI=1S/C10H16O/c1-8-3-5-10(6-4-8)9(2)7-11/h3,7,9-10H,4-6H2,1-2H3
InchiKey:	UMEJBWOWZDRULR-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1=CCC(C(C)C=O)CC1
Mol. weight [g/mol]:	152.23
CAS:	29548-14-9

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	1217.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1217.00		NIST Webbook
rinpol	1232.00		NIST Webbook
rinpol	1231.00		NIST Webbook
rinpol	1234.00		NIST Webbook
rinpol	1217.00		NIST Webbook
rinpol	1225.00		NIST Webbook
rinpol	1235.00		NIST Webbook

ripol	1191.00		NIST Webbook
ripol	1585.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1638.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1585.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1585.00		NIST Webbook
ripol	1600.00		NIST Webbook
ripol	1600.00		NIST Webbook
ripol	1629.00		NIST Webbook
ripol	1590.00		NIST Webbook
ripol	1620.00		NIST Webbook
tb	500.11	K	Joback Method
tc	710.00	K	Joback Method
tf	250.12	K	Joback Method
vc	0.525	m ³ /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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C29548149&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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