

Cyclohexanol, 2-methyl-5-(1-methylethenyl)-

Other names:	p-Menth-8-en-2-ol 1,6-Dihydrocarveol 6-Methyl-3-isopropenylcyclohexanol 8-p-Menthen-2-ol 2-Methyl-5-(1-methylethenyl)cyclohexanol Dihydrocarveol (Isomer 1) Dihydrocarveol (Isomer 2) 5-Isopropenyl-2-methylcyclohexanol Dihydrocarveol (Isomer 3)
Inchi:	InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)10(11)6-9/h8-11H,1,4-6H2,2-3H3
InchiKey:	KRCZYMFUWVJCLI-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	C=C(C)C1CCC(C)C(O)C1
Mol. weight [g/mol]:	154.25
CAS:	619-01-2

Physical Properties

Property code	Value	Unit	Source
gf	-15.18	kJ/mol	Joback Method
hf	-272.68	kJ/mol	Joback Method
hfus	17.13	kJ/mol	Joback Method
hvap	53.75	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
rinpol	1202.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1202.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1189.00		NIST Webbook

rinpol	1165.00		NIST Webbook
ripol	1720.00		NIST Webbook
ripol	1709.00		NIST Webbook
ripol	1720.00		NIST Webbook
tb	497.70	K	NIST Webbook
tc	719.80	K	Joback Method
tf	246.46	K	Joback Method
vc	0.527	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.71	J/mol×K	527.15	Joback Method
cpg	367.51	J/mol×K	559.26	Joback Method
cpg	383.50	J/mol×K	591.37	Joback Method
cpg	398.69	J/mol×K	623.47	Joback Method
cpg	413.11	J/mol×K	655.58	Joback Method
cpg	426.76	J/mol×K	687.69	Joback Method
cpg	439.67	J/mol×K	719.80	Joback Method
hvapt	58.20	kJ/mol	417.00	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C619012&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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

hvapt:	Enthalpy of vaporization at a given temperature
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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