Cyclohexanol, 2-methyl-5-(1-methylethenyl)-, (1«alpha»,2«beta»,5«alpha»)-

Other names: Dihydrocarveol
Carveol, dihydro-, trans-
Carveol, dihydro-
Dihydrocarveole
5-Isopropenyl-2-methylcyclohexanol, (1«alpha»,2«beta»,5«alpha»)-
(.+/-.)-Dihydrocarveol
p-Menth-8-en-2-ol
p-Ment-8-en-2-ol
(1«alpha»,2«beta»,5«alpha»)-2-methyl-5-(1-methylvinyl)cyclohexan-1-ol

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: 38049-26-2

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	1177.00		NIST Webbook
rinpol	1181.50		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1181.50		NIST Webbook
rinpol	1208.00		NIST Webbook

rinpol	1200.00	NIST Webbook
rinpol	1182.00	NIST Webbook
rinpol	1178.00	NIST Webbook
rinpol	1181.00	NIST Webbook
rinpol	1195.00	NIST Webbook
rinpol	1205.00	NIST Webbook
rinpol	1169.00	NIST Webbook
rinpol	1190.00	NIST Webbook
rinpol	1206.00	NIST Webbook
rinpol	1190.00	NIST Webbook
rinpol	1208.00	NIST Webbook
rinpol	1188.00	NIST Webbook
rinpol	1192.00	NIST Webbook
rinpol	1206.00	NIST Webbook
rinpol	1190.00	NIST Webbook
rinpol	1195.00	NIST Webbook
rinpol	1188.00	NIST Webbook
rinpol	1196.00	NIST Webbook
rinpol	1191.00	NIST Webbook
rinpol	1188.00	NIST Webbook
rinpol	1187.00	NIST Webbook
rinpol	1208.00	NIST Webbook
rinpol	1199.00	NIST Webbook
rinpol	1181.00	NIST Webbook
rinpol	1183.00	NIST Webbook
rinpol	1181.00	NIST Webbook
rinpol	1182.00	NIST Webbook
rinpol	1177.00	NIST Webbook
rinpol	1226.00	NIST Webbook
rinpol	1212.00	NIST Webbook
rinpol	1192.00	NIST Webbook
rinpol	1183.00	NIST Webbook
rinpol	1191.00	NIST Webbook
rinpol	1174.00	NIST Webbook
rinpol	1175.00	NIST Webbook
rinpol	1190.00	NIST Webbook
rinpol	1177.00	NIST Webbook
ripol	1755.00	NIST Webbook
ripol	1702.00	NIST Webbook
ripol	1698.00	NIST Webbook
ripol	1750.00	NIST Webbook
ripol	1698.00	NIST Webbook
ripol	1713.00	NIST Webbook
ripol	1698.00	NIST Webbook

ripol	1713.00		NIST Webbook
ripol	1720.00		NIST Webbook
ripol	1698.00		NIST Webbook
ripol	1713.00		NIST Webbook
tb	527.15	K	Joback Method
tc	719.80	K	Joback Method
tf	246.46	K	Joback Method
vc	0.527	m3/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

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
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=C38049262&Units=SI

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

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