

# dl-Isopulegol

<b>Other names:</b>	Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1«alpha»,2«beta»,5«alpha»)-(.+/-.)- Isopulegol, (.+/-.)- 2-Isopropenyl-5-methylcyclohexanol, (1«alpha»,2«beta»,5«alpha»)- Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1R,2S,5R)-rel- (±)-(1«alpha»,2«beta»,5«alpha»)-5-methyl-2-(1-methylvinyl)cyclohexan-1-ol dl-isopulgeol
<b>Inchi:</b>	InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)6-10(9)11/h8-11H,1,4-6H2,2-3H3
<b>InchiKey:</b>	ZYTMANIQRDEHIO-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	C=C(C)C1CCC(C)CC1O
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	50373-36-9

## 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	1159.00		NIST Webbook
rinpol	1167.00		NIST Webbook
ripol	1606.00		NIST Webbook
tb	485.15 ± 1.00	K	NIST Webbook
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

<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=C50373369&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50373369&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/32-345-3/dl-Isopulegol.pdf>

Generated by Cheméo on 2024-04-27 16:21:21.759169133 +0000 UTC m=+16524130.679746450.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.