

# «alpha»-Fenchol

<b>Other names:</b>	«alpha»-Fenchyl alcohol endo-«alpha»-Fenchol (1S-endo)-1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol
<b>Inchi:</b>	InChI=1S/C10H18O/c1-9(2)7-4-5-10(3,6-7)8(9)11/h7-8,11H,4-6H2,1-3H3/t7?,8-,10?/m0/s
<b>InchiKey:</b>	IAIHUHQCLTYTSF-ZCUBBSJVSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CC12CCC(C1)C(C)(C)C2O
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	512-13-0

## Physical Properties

Property code	Value	Unit	Source
gf	-20.50	kJ/mol	Joback Method
hf	-272.72	kJ/mol	Joback Method
hfus	9.46	kJ/mol	Joback Method
hvap	51.61	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.194		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinpol	1117.00		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1114.00		NIST Webbook
rinpol	1108.00		NIST Webbook
rinpol	1099.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1106.00		NIST Webbook
rinpol	1112.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1112.00		NIST Webbook
rinpol	1103.00		NIST Webbook
rinpol	1098.00		NIST Webbook
rinpol	1111.90		NIST Webbook
rinpol	1094.00		NIST Webbook
rinpol	1117.00		NIST Webbook
rinpol	1094.00		NIST Webbook
rinpol	1094.00		NIST Webbook

rinpol	1112.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1100.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1117.00	NIST Webbook
rinpol	1115.00	NIST Webbook
rinpol	1098.00	NIST Webbook
rinpol	1102.00	NIST Webbook
rinpol	1098.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1100.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1094.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1100.00	NIST Webbook
rinpol	1102.00	NIST Webbook
rinpol	1110.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1116.00	NIST Webbook
rinpol	1104.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1128.00	NIST Webbook
rinpol	1101.00	NIST Webbook
rinpol	1110.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1101.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1102.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1112.00	NIST Webbook
rinpol	1121.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1098.00	NIST Webbook
rinpol	1106.00	NIST Webbook
ripol	1574.00	NIST Webbook
ripol	1574.00	NIST Webbook
ripol	1581.00	NIST Webbook
ripol	1593.00	NIST Webbook
ripol	1577.00	NIST Webbook
ripol	1572.00	NIST Webbook

ripol	1572.00		NIST Webbook
ripol	1574.00		NIST Webbook
ripol	1565.00		NIST Webbook
ripol	1557.00		NIST Webbook
ripol	1573.00		NIST Webbook
ripol	1581.00		NIST Webbook
ripol	1574.00		NIST Webbook
ripol	1578.00		NIST Webbook
tb	529.27	K	Joback Method
tc	730.21	K	Joback Method
tf	334.96	K	Joback Method
vc	0.514	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.30	J/mol×K	529.27	Joback Method
cpg	370.25	J/mol×K	562.76	Joback Method
cpg	385.05	J/mol×K	596.25	Joback Method
cpg	398.92	J/mol×K	629.74	Joback Method
cpg	412.02	J/mol×K	663.23	Joback Method
cpg	424.55	J/mol×K	696.72	Joback Method
cpg	436.70	J/mol×K	730.21	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=C512130&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C512130&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>h vap:</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

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