

4-Hexen-1-ol, 5-methyl-2-(1-methylethenyl)-, (R)-

Other names:	4-Hexen-1-ol, 2-isopropenyl-5-methyl-, (-)- (R)-5-Methyl-2-(prop-1-en-2-yl)hex-4-en-1-ol (-)-Lavandulol Lavandulol (R)-Lavandulol 4-Hexen-1-ol, 5-methyl-2-(1-methylethenyl)-, (2R)-
Inchi:	InChI=1S/C10H18O/c1-8(2)5-6-10(7-11)9(3)4/h5,10-11H,3,6-7H2,1-2,4H3/t10-m/s1
InchiKey:	CZVXBFUKBZRMKR-SNVBAGLBSA-N
Formula:	C10H18O
SMILES:	C=C(C)C(CO)CC=C(C)C
Mol. weight [g/mol]:	154.25
CAS:	498-16-8

Physical Properties

Property code	Value	Unit	Source
gf	45.02	kJ/mol	Joback Method
hf	-184.17	kJ/mol	Joback Method
hfus	18.52	kJ/mol	Joback Method
hvap	53.59	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.527		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2566.29	kPa	Joback Method
rinpol	1165.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1156.60		NIST Webbook
rinpol	1157.00		NIST Webbook
rinpol	1167.00		NIST Webbook
rinpol	1170.00		NIST Webbook

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ripol	1686.00		NIST Webbook
ripol	1675.00		NIST Webbook
ripol	1707.00		NIST Webbook
ripol	1686.00		NIST Webbook
tb	520.54	K	Joback Method
tc	696.89	K	Joback Method
tf	213.52	K	Joback Method
vc	0.572	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.99	J/mol×K	520.54	Joback Method
cpg	356.95	J/mol×K	549.93	Joback Method
cpg	369.29	J/mol×K	579.32	Joback Method
cpg	381.04	J/mol×K	608.71	Joback Method
cpg	392.23	J/mol×K	638.10	Joback Method
cpg	402.88	J/mol×K	667.49	Joback Method
cpg	413.03	J/mol×K	696.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C498168&Units=SI
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

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

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