

7-Octen-2-ol, 2-methyl-6-methylene-

Other names:	Myrcenol 2-Methyl-6-methylene-7-octen-2-ol 3-Methylene-7-methyl-1-octen-7-ol 1-Myrcenol 2-methyl-6-methyleneoct-7-en-2-ol
Inchi:	InChI=1S/C10H18O/c1-5-9(2)7-6-8-10(3,4)11/h5,11H,1-2,6-8H2,3-4H3
InchiKey:	DUNCVNHORHNONW-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	C=CC(=C)CCCC(C)(C)O
Mol. weight [g/mol]:	154.25
CAS:	543-39-5

Physical Properties

Property code	Value	Unit	Source
gf	66.47	kJ/mol	Joback Method
hf	-169.64	kJ/mol	Joback Method
hfus	14.46	kJ/mol	Joback Method
hvap	51.98	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.670		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
rinpol	1117.00		NIST Webbook
rinpol	1099.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1093.00		NIST Webbook
rinpol	1104.00		NIST Webbook
rinpol	1124.10		NIST Webbook
rinpol	1137.00		NIST Webbook
rinpol	1120.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1123.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1118.00		NIST Webbook
rinpol	1103.00		NIST Webbook
rinpol	1076.00		NIST Webbook
rinpol	1103.00		NIST Webbook

rinpol	1111.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1104.00	NIST Webbook
rinpol	1126.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1105.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1120.00	NIST Webbook
rinpol	1103.00	NIST Webbook
rinpol	1104.00	NIST Webbook
rinpol	1084.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1091.00	NIST Webbook
rinpol	1097.00	NIST Webbook
rinpol	1118.00	NIST Webbook
rinpol	1091.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1084.00	NIST Webbook
rinpol	1099.00	NIST Webbook
rinpol	1079.00	NIST Webbook
ripol	1604.00	NIST Webbook
ripol	1622.00	NIST Webbook
ripol	1584.00	NIST Webbook
ripol	1620.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1584.00	NIST Webbook
ripol	1586.00	NIST Webbook
ripol	1582.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1622.00	NIST Webbook
ripol	1631.00	NIST Webbook
ripol	1581.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1618.00	NIST Webbook
ripol	1585.00	NIST Webbook
ripol	1631.00	NIST Webbook
ripol	1622.00	NIST Webbook
ripol	1584.00	NIST Webbook
ripol	1584.00	NIST Webbook
ripol	1625.00	NIST Webbook

ripol	1581.00		NIST Webbook
ripol	1581.00		NIST Webbook
ripol	1581.00		NIST Webbook
ripol	1604.00		NIST Webbook
tb	510.39	K	Joback Method
tc	685.90	K	Joback Method
tf	248.22	K	Joback Method
vc	0.567	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.21	J/mol×K	510.39	Joback Method
cpg	359.42	J/mol×K	539.64	Joback Method
cpg	371.94	J/mol×K	568.89	Joback Method
cpg	383.79	J/mol×K	598.14	Joback Method
cpg	395.03	J/mol×K	627.39	Joback Method
cpg	405.67	J/mol×K	656.64	Joback Method
cpg	415.75	J/mol×K	685.90	Joback Method

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=C543395&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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