Cyclohexanol, 1-methyl-4-(1-methylethenyl)-

Other names:	p-Menth-8-en-1-ol
	«beta»-Terpineol
	t-Menth-1-en-8-ol
	«beta»-Terpinol
	1-methyl-4-(1-Methylethenyl)-cyclohexanol
	p-Ment-8-en-1-ol
	1-methyl-4-(1-methylvinyl)cyclohexan-1-ol
Inchi:	InChI=1S/C10H18O/c1-8(2)9-4-6-10(3,11)7-5-9/h9,11H,1,4-7H2,2-3H3
InchiKey:	RUJPNZNXGCHGID-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	C=C(C)C1CCC(C)(O)CC1
Mol. weight [g/mol]:	154.25
CAS:	138-87-4

Physical Properties

Property code	Value	Unit	Source
gf	-12.96	kJ/mol	Joback Method
hf	-237.10	kJ/mol	Joback Method
hfus	9.76	kJ/mol	Joback Method
hvap	52.91	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	3012.33	kPa	Joback Method
rinpol	1157.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1137.00		NIST Webbook
rinpol	1132.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1156.00		NIST Webbook
rinpol	1143.00		NIST Webbook
rinpol	1143.00		NIST Webbook
rinpol	1147.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1149.00		NIST Webbook
rinpol	1137.00		NIST Webbook
rinpol	1122.00		NIST Webbook

rinpol	1162.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1123.00	NIST Webbook
rinpol	1130.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1130.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1188.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1179.00	NIST Webbook
rinpol	1173.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1127.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1143.00	NIST Webbook
rinpol	1127.00	NIST Webbook
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rinpol	1135.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1187.00	NIST Webbook
ripol	1616.00	NIST Webbook
ripol	1631.00	NIST Webbook
ripol	1632.00	NIST Webbook
ripol	1620.00	NIST Webbook
ripol	1616.00	NIST Webbook

ripol	1631.00		NIST Webbook
ripol	1622.00		NIST Webbook
ripol	1667.00		NIST Webbook
ripol	1666.00		NIST Webbook
ripol	1616.00		NIST Webbook
ripol	1641.00		NIST Webbook
ripol	1629.00		NIST Webbook
ripol	1615.00		NIST Webbook
ripol	1624.00		NIST Webbook
ripol	1640.00		NIST Webbook
ripol	1646.00		NIST Webbook
ripol	1625.00		NIST Webbook
tb	532.06	K	Joback Method
tc	732.54	K	Joback Method
tf	274.60	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.49	J/mol×K	532.06	Joback Method
cpg	365.75	J/mol×K	565.47	Joback Method
cpg	381.06	J/mol×K	598.89	Joback Method
cpg	395.50	J/mol×K	632.30	Joback Method
cpg	409.18	J/mol×K	665.71	Joback Method
cpg	422.18	J/mol×K	699.12	Joback Method
cpg	434.60	J/mol×K	732.54	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	363.20	K	1.30	NIST Webbook

Sources

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=C138874&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume