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

Other names: Terpineol, cis-«beta»-
p-Menth-8-en-1-ol, cis
cis-«beta»-Terpineol
cis-p-Menth-8-en-1-ol
(Z)-«beta»-Terpineol
4-Isopropenyl-1-methylcyclohexanol, cis

Inchi: InChI=1S/C10H18O/c1-8(2)9-4-6-10(3,11)7-5-9/h9,11H,1,4-7H2,2-3H3/t9-,10+

InchiKey: RUJPNZNXGCHGID-AOOOYVTPSA-N

Formula: C10H18O

SMILES: C=C(C)C1CCC(C)(O)CC1

Mol. weight [g/mol]: 154.25

CAS: 7299-41-4

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	1137.00		NIST Webbook
rinpol	1131.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1128.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1145.00		NIST Webbook
rinpol	1147.00		NIST Webbook
rinpol	1125.00		NIST Webbook
rinpol	1126.00		NIST Webbook
rinpol	1132.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1145.00		NIST Webbook

rinpol	1143.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1129.00		NIST Webbook
rinpol	1127.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1145.00		NIST Webbook
ripol	1616.00		NIST Webbook
ripol	1644.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1644.00		NIST Webbook
ripol	1641.00		NIST Webbook
ripol	1616.00		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

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=C7299414&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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