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

Other names:	1-Methyl-4-(1-methylethyl)cyclohexanol
	4-Isopropyl-1-methylcyclohexanol
	«gamma»-Terpineol, dihydro-
	p-Menthan-1-ol
	p-Mentan-1-ol
	1-methyl-4-(isopropyl)cyclohexan-1-ol
Inchi:	InChI=1S/C10H20O/c1-8(2)9-4-6-10(3,11)7-5-9/h8-9,11H,4-7H2,1-3H3
InchiKey:	CMLYGGFIXXLYQT-UHFFFAOYSA-N
Formula:	C10H20O
SMILES:	CC(C)C1CCC(C)(O)CC1
Mol. weight [g/mol]:	156.27
CAS:	21129-27-1

Physical Properties

Property code	Value	Unit	Source
gf	-94.69	kJ/mol	Joback Method
hf	-358.02	kJ/mol	Joback Method
hfus	8.83	kJ/mol	Joback Method
hvap	53.11	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
rinpol	1156.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1178.00		NIST Webbook
ripol	1621.00		NIST Webbook
ripol	1650.00		NIST Webbook
tb	535.06	K	Joback Method
tc	732.18	K	Joback Method
tf	275.32	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.19	J/mol×K	535.06	Joback Method
cpg	386.16	J/mol×K	567.91	Joback Method
cpg	402.19	J/mol×K	600.77	Joback Method
cpg	417.37	J/mol×K	633.62	Joback Method
cpg	431.77	J/mol×K	666.47	Joback Method
cpg	445.48	J/mol×K	699.32	Joback Method
cpg	458.58	J/mol×K	732.18	Joback Method

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=C21129271&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume