Cyclohexanol, 3-methyl-

Other names:	3-Methylcyclohexanol,c&t
	3-methyl-1-cyclohexanol, (cis+trans)
	3-methylcyclohexanol
	3-methylcyclohexanol, (cis+trans)
	3-methylcyclohexanol, mixed isomers
	Cyclohexanol, m-methyl-
	cyclohexanol, 3-methyl-, (cis+trans)
	m-Methylcyclohexanol
Inchi:	InChI=1S/C7H14O/c1-6-3-2-4-7(8)5-6/h6-8H,2-5H2,1H3
InchiKey:	HTSABYAWKQAHBT-UHFFFAOYSA-N
Formula:	C7H14O
SMILES:	CC1CCCC(O)C1
Mol. weight [g/mol]:	114.19
CAS:	591-23-1

Physical Properties

Property code	Value	Unit	Source
gf	-112.02	kJ/mol	Joback Method
hf	-306.06	kJ/mol	Joback Method
hfus	10.88	kJ/mol	Joback Method
hvap	65.50	kJ/mol	NIST Webbook
log10ws	-1.78		Crippen Method
logp	1.557		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
rinpol	947.00		NIST Webbook
rinpol	947.00		NIST Webbook
rinpol	950.00		NIST Webbook
rinpol	947.00		NIST Webbook
rinpol	947.00		NIST Webbook
rinpol	943.00		NIST Webbook
rinpol	950.00		NIST Webbook
ripol	1463.00		NIST Webbook
ripol	1463.00		NIST Webbook
ripol	1463.00		NIST Webbook
tb	436.20	K	NIST Webbook
tb	444.35 ± 0.50	K	NIST Webbook

tc	659.09	K	Joback Method
tf	232.61	K	Joback Method
vc	0.379	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.10	J/mol×K	659.09	Joback Method
cpg	296.01	J/mol×K	627.01	Joback Method
cpg	284.31	J/mol×K	594.94	Joback Method
cpg	271.99	J/mol×K	562.86	Joback Method
cpg	259.05	J/mol×K	530.78	Joback Method
cpg	245.46	J/mol×K	498.70	Joback Method
cpg	231.22	J/mol×K	466.62	Joback Method
cpl	201.70	J/mol×K	290.00	NIST Webbook
dvisc	0.0003597	Pa×s	427.62	Joback Method
dvisc	0.0550246	Pa×s	232.61	Joback Method
dvisc	0.0112900	Pa×s	271.61	Joback Method
dvisc	0.0002179	Pa×s	466.62	Joback Method
dvisc	0.0034480	Pa×s	310.61	Joback Method
dvisc	0.0013721	Pa×s	349.62	Joback Method
dvisc	0.0006569	Pa×s	388.62	Joback Method
srf	0.03	N/m	293.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols
srf	0.03	N/m	323.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols
srf	0.03	N/m	318.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols

srf	0.03	N/m	313.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols
srf	0.03	N/m	303.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols
srf	0.03	N/m	298.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols
srf	0.03	N/m	308.15	Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C591231&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Surface Properties of Pure Liquids and Binary Liquid Mixtures of Ethylene Glycol + Methylcyclohexanols:	https://www.doi.org/10.1021/je049919e
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
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
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume