

Cyclohexanemethanol, 4-hydroxy-«alpha»,«alpha»,4-trimethyl-

Other names:	p-Menthane-1,8-diol Terpin 1,8-Terpin Dipenteneglycol p-Mentha-1,8-diol NSC 403856 Terpin p-menthane-1,8-diol
Inchi:	InChI=1S/C10H20O2/c1-9(2,11)8-4-6-10(3,12)7-5-8/h8,11-12H,4-7H2,1-3H3
InchiKey:	RBNWAMSGVWEHFP-UHFFFAOYSA-N
Formula:	C10H20O2
SMILES:	CC1(O)CCC(C(C)(C)O)CC1
Mol. weight [g/mol]:	172.26
CAS:	80-53-5

Physical Properties

Property code	Value	Unit	Source
gf	-226.23	kJ/mol	Joback Method
hf	-513.72	kJ/mol	Joback Method
hfus	9.03	kJ/mol	Joback Method
hvap	68.89	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.698		Crippen Method
mcvol	152.640	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
rinpol	1279.00		NIST Webbook
rinpol	1279.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2244.00		NIST Webbook
tb	624.45	K	Joback Method
tc	816.90	K	Joback Method
tf	353.56	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.23	J/mol×K	624.45	Joback Method
cpg	448.51	J/mol×K	656.53	Joback Method
cpg	462.03	J/mol×K	688.60	Joback Method
cpg	474.88	J/mol×K	720.68	Joback Method
cpg	487.17	J/mol×K	752.75	Joback Method
cpg	498.98	J/mol×K	784.83	Joback Method
cpg	510.42	J/mol×K	816.90	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80535&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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