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

Other names: p-Menthan-8-ol
Dihydro-«alpha»-terpineol
1-Methyl-4-isopropylcyclohexane-8-ol
«alpha»-Dihydroterpineol
«alpha»,«alpha»,4-trimethylcyclohexanemethanol

Inchi: InChI=1S/C10H20O/c1-8-4-6-9(7-5-8)10(2,3)11/h8-9,11H,4-7H2,1-3H3/t8?,9-

InchiKey: UODXCYZDMHPIJE-WLQWPBEESA-N

Formula: C10H20O

SMILES: CC1CCC(C(C)(C)O)CC1

Mol. weight [g/mol]: 156.27

CAS: 498-81-7

Physical Properties

Property code	Value	Unit	Source
gf	-83.92	kJ/mol	Joback Method
hf	-376.73	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	53.36	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
rinpol	1162.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1161.00		NIST Webbook
ripol	1569.00		NIST Webbook
ripol	1569.00		NIST Webbook
tb	441.00 ± 4.00	K	NIST Webbook
tc	729.03	K	Joback Method
tf	268.84	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.32	J/mol×K	532.03	Joback Method
cpg	390.15	J/mol×K	564.86	Joback Method
cpg	406.99	J/mol×K	597.70	Joback Method
cpg	422.88	J/mol×K	630.53	Joback Method
cpg	437.86	J/mol×K	663.36	Joback Method
cpg	451.95	J/mol×K	696.19	Joback Method
cpg	465.20	J/mol×K	729.03	Joback Method
dvisc	0.0384558	Pa×s	268.84	Joback Method
dvisc	0.0076741	Pa×s	312.71	Joback Method
dvisc	0.0022767	Pa×s	356.57	Joback Method
dvisc	0.0008815	Pa×s	400.44	Joback Method
dvisc	0.0004116	Pa×s	444.30	Joback Method
dvisc	0.0002204	Pa×s	488.16	Joback Method
dvisc	0.0001308	Pa×s	532.03	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C498817&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume